Environment Canada Environnement Canada

SUPPLEMENT/ SUPPLÉMENT

Historical Streamflow Summary

Alberta

Sommaire chronologique de l'écoulement

TO/JUSQU'À **1988**

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1989

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This supplement was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa. The main publication omitted the maximum instantaneous discharges for some stations. This supplement contains the entire historical streamflow summary for these incomplete stations.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Clagary, Alberta.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé le présent supplément. La première publication négligeait de considérer le débit instantané maximal à certaines stations. Le présent supplément comprend le sommaire chronologique complet de l'écoulement pour ces stations.

On a recueilli et compilé les données de base sous la supervision de Chef régional de la Direction des ressources en eau, à Calgary (Alberta).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a supplementary summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Alberta for which streamflow data to 1988 inclusive have been collected by the Water Survey of Canada.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on diskette or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
Bag 2902,
Postal Station 'M',
(Room 854,
220-4th Avenue S.E.,)
Calgary, Alberta.
T2P 2M7
(403 292-5311)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire supplémentaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau de l'Alberta, pour lesquels le Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1988 inclusivement.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de disquettes ou de rubans magnétiques pour traitement sur ordinateur. En s'adressant aux endroits ci-après, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Sac postal 2902
Succursale postale 'M'
(Pièce 854,
220, Quatrième avenue S.-E.)
Calgary (Alberta)
T2P 2M7
(403 292-5311)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Alberta were conducted by the Water Survey of Canada under agreement with the Province of Alberta. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream measurement work was carried on between 1894 and 1908 in connection with the Canadian Irrigation Surveys. Early in 1909 the Hydrometric Survey was organized as part of the Forestry and Irrigation Branch and was conducted by the Branch until 1911. The Hydrometric Survey was then assigned to the Irrigation Branch (later the Reclamation Service) remaining in that organization until July, 1920, when it was transferred to the Dominion Water Power Branch. Following the transfer of the natural resources of Alberta to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Alberta for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933 work was continued by the federal government under letter arrangement until 1975. A co-operative agreement, (with an implementation date of April 1, 1975), was signed with the Government of Alberta on April 15, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques en Alberta en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

Entre 1894 et 1908, des relevés ont été effectués en même temps que les levés canadiens relatifs à l'irrigation. Au début de l'année 1909, un service des relevés hydrométriques a été créé au sein de la Direction des forêts et de l'irrigation, qui s'en est occupée jusqu'en 1911. L'exécution de ces relevés a ensuite été confiée à la Direction de l'irrigation (devenue plus tard le Service de la mise en valeur des terres), et ce jusqu'en juillet 1920 date à laquelle la Direction fédérale de l'énergie hydraulique en a pris charge. Après que la responsabilité des ressources naturelles de l'Alberta a passé à cette dernière, le 1er octobre 1930, un accord de coopération a été conclu avec son gouvernement, aux termes duquel le gouvernement fédéral s'est engagé à poursuivre l'exécution des relevés hydrométriques. L'accord à pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 15 avril 1975, le gouvernement de l'Alberta a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et

New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known); International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude; de la superficie du bassin versant; du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue); des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1988 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;
3. Annual maximum and minimum daily discharges;
4. Identification of the extreme recorded for the period of record;
5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1987.

1. *The summary of monthly and annual mean discharge* gives:

   (a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief;

   (b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only;

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1988 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;
3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;
4. Un tableau des valeurs extrêmes enregistrées pour toute la période d'observation;
5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1987.

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne:

   (a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional;

   (b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre;

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1987 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, est fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1987 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

STREAMFLOW DATA

ALKALI CREEK NEAR THE MOUTH - STATION NO. 05CK005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	0	0	0	0	0	---	---	---	1962
1963	---	---	0.019	0.007	0.001	0	0	0	0	0	---	---	0.003	1963
1964	---	---	0	0.010	0.008	0	0	0	0	0	---	---	0.002	1964
1965	---	---	0.010	5.48	0.018	0.004	0	0	0	0	---	---	0.878	1965
1966	---	---	0.851	0.012	0.005	0.003	0	0	0	0	---	---	0.088	1966
1967	---	---	0.004	0.840	0.019	0.001	0	0	0	0	---	---	0.081	1967
1968	---	---	0.002	0.003	0.002	0.002	0	0	0	0	---	---	0.001	1968
1969	---	---	0	5.78	0.008	0	0	0	0	0	---	---	0.708	1969
1970	---	---	0.086	0.156	0.004	0.001	0.001	0	0	0	---	---	0.031	0
1971	---	---	0	1.48	0.014	0	0	0	0	0	---	---	0.181	
1972	---	---	0.042	0.018	0.014	0	0	0	0	0	---	---	0.009	
1973	---	---	0.953	0.027	0.015	0.025	0.001	0	0	0	---	---	0.129	1973
1974	---	---	0	1.65	0.062	0.010	0	0	0	0	---	---	0.212	1974
1975	---	---	0	0.218	0.055	0.018	0.001	0	0	0	---	---	0.036	1975
1976	---	---	0.043	0.103	0.015	0	0	0	0	0	---	---	0.020	1976
1977	---	---	0.003	0.002	0	0	0	0	0	0	---	---	0.001	1977
1978	---	---	0.012	0.042	0.012	0.004	0	0	0	0	---	---	0.009	1978
1979	---	---	0.137	0.023	0.011	0.001	0	0	0	0	---	---	0.022	1979
1980	---	---	0.017	0.007	0	0	0	0	0	0	---	---	0.003	1980
1981	---	---	0.005	0.003	0.004	0.004	0	0	0	0	---	---	0.002	1981
1982	---	---	0.001	0.008	0.005	0.002	0	0	0	0	---	---	0.002	1982
1983	---	---	0.013	0.015	0.012	0	0.027	0	0	0	---	---	0.008	1983
1984	---	---	0.012	0.013	0.001	0.001	0	0	0	0	---	---	0.004	1984
1985	---	---	0.038	0.788	0.005	0	0	0	0	0	---	---	0.101	1985
1986	---	---	0.007	0.005	0.005	0.003	0	0	0.002	0.004	---	---	0.003	1986
1987	---	---	0.015	0.020	0.002	0	0	0	0	0	---	---	0.005	1987
1988	---	---	0.005	0.004	0	0	0	0	0	0	---	---	0.001	1988
MEAN	---	---	0.060	0.635	0.012	0.003	0.001	0	0	0	---	---	0.090	MEAN

LOCATION - LAT 50 53 54 N DRAINAGE AREA, 890 km²
LONG 110 30 30 W NATURAL FLOW

ALKALI CREEK NEAR THE MOUTH - STATION NO. 05CK005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	0 ON JUN 1 *	---	1962
1963	---	0.0348 ON MAR 22	0 ON MAY 9	73.3	1963
1964	---	0.048 ON MAY 5	0 ON MAR 1	48.1	1964
1965	95.1 AT 13:30 MST ON APR 10 *	30.9 ON APR 10	0E ON MAR 1	14 300	1965
1966	---	3.79 ON MAR 17	0E ON MAR 1	1 830	1966
1967	---	8.09 ON APR 15	0E ON MAR 1	1 720	1967
1968	---	0.014 ON MAY 31	0E ON MAR 1	22.1	1968
1969	42.2 AT 08:30 MST ON APR 10	37.7 ON APR 9 *	0E ON MAR 1	15 000	1969
1970	---	0.9268 ON APR 8	0E ON MAR 1	852	1970
1971	11.1 AT 12:30 MST ON APR 14	8.18 ON APR 14	0E ON MAR 1	3 830	1971
1972	---	0.3869 ON MAR 20	0E ON MAR 1	196	1972
1973	8.85 AT 16:40 MST ON MAR 25	3.82 ON MAR 25	0E ON MAR 1	2 730	1973
1974	9.46 B ON APR 15	8.72 B ON APR 15	0E ON MAR 1	4 480	1974
1975	2.44 AT 18:00 MST ON APR 22	1.44 ON APR 23	0E ON MAR 1	785	1975
1976	1.29 B AT 15:00 MST ON APR 1	0.8718 ON APR 1	0E ON MAR 1	422	1976
1977	---	0.0089 ON MAR 17	0E ON MAR 1	14.9	1977
1978	---	0.0918 ON APR 4	0E ON MAR 1	188	1978
1979	---	0.5808 ON MAR 12	0E ON MAR 1	480	1979
1980	---	0.0778 ON MAR 28	0E ON MAR 1	85.4	1980
1981	0.026 AT 04:30 MST ON JUN 15	0.025 ON APR 28	0 ON APR 28	42.2	1981
1982	0.015 AT 13:50 MST ON APR 23	0.015 ON APR 23	0E ON MAR 1	44.0	1982
1983	1.29 AT 19:20 MST ON JUL 20	0.215 ON JUL 21	0 ON MAY 27	178	1983
1984	---	0.0348 ON MAR 24	0E ON MAR 1	74.8	1984
1985	13.3 B AT 16:11 MST ON APR 4	7.02 B ON APR 5	0E ON MAR 1	2 150	1985
1986	---	0.039 ON JUN 15	0 ON MAY 26	88.7	1986
1987	0.0438 AT 21:13 MST ON MAR 4	0.031 ON APR 3	0E ON MAR 1	95.7	1987
1988	0.802 AT 17:20 MST ON JUL 22	0.0155 ON MAR 10	0E ON MAR 1	24.3	1988
				1 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

AMISK RIVER AT HIGHWAY NO. 35 - STATION NO. 05AA002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	1.37	24.3	18.9	12.7	30.0	6.43	3.70	2.06	---	---	12.7	1971
1972	---	---	0.763	8.55	16.9	3.97	1.46	0.883	0.887	0.638	---	---	4.28	1972
1973	---	---	0.064	1.78	1.74	9.85	2.78	3.73	3.15	1.88	---	---	3.08	1973
1974	---	---	0.878	23.8	32.7	10.6	9.37	3.51	2.25	1.75	---	---	10.6	1974
1975	---	---	0.782	9.38	7.46	4.23	11.3	3.86	13.4	5.33	---	---	6.06	1975
1976	---	---	1.00	8.34	2.73	1.47	5.35	0.739	0.883	0.340	---	---	2.89	1976
1977	---	---	0.397	4.83	8.90	4.61	1.43	2.00	2.35	1.17	---	---	4.00	1977
1978	---	---	0.548	6.02	5.80	25.2	4.26	1.85	13.8	9.08	---	---	8.82	1978
1979	---	---	2.92	11.3	21.7	12.5	11.6	5.87	3.06	1.36	---	---	8.78	1979
1980	---	---	0.516	4.84	1.04	0.595	0.444	2.52	2.48	2.31	---	---	1.82	1980
1981	---	---	2.18	4.97	1.79	1.11	2.36	0.804	0.258	0.093	---	---	1.89	1981
1982	---	---	0	2.39	1.88	0.247	0.114	0.028	0.001	F	---	---	0.578	1982
1983	---	---	0.010	1.03	0.473	1.11	5.88	3.80	2.15	1.20	0.838	---	1.96	1983
1984	---	---	0.785	3.04	2.01	11.1	1.36	0.107	0.174	0.773	---	---	2.38	1984
1985	---	---	0.156	5.08	5.89	0.914	0.188	0.030	0.007	0.239	---	---	1.87	1985
1986	---	---	0.200	1.73	0.730	0.525	4.18	3.88	0.308	0.252	---	---	2.00	1986
1987	---	---	0.284	9.87	2.71	1.96	0.631	0.603	0.201	0.961	---	---	2.01	1987
1988	---	---	0.158	0.704	0.206	0.080	0.261	0.015	0.014	0.008	---	---	0.184	1988
MEAN	---	---	0.735	7.21	7.84	5.71	5.39	2.37	2.88	1.74	0.838	---	4.17	MEAN

LOCATION - LAT 54 28 20 N
LONG 112 01 00 W
DRAINAGE AREA, 2 510 km²
NATURAL FLOW

AMISK RIVER AT HIGHWAY NO. 35 - STATION NO. 05AA002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	50.5 ON APR 24 *	1.27 B ON MAR 14	285 000	1971
1972	24.6 AT 11:40 MST ON MAY 2	24.6 ON MAY 3	0.450A ON OCT 31	90 600	1972
1973	25.5 AT 17:45 MST ON JUN 18	25.3 ON JUN 19	0.028B ON MAR 1	85 100	1973
1974	51.3 AT 01:30 MST ON APR 24	51.3 ON APR 24	0.783B ON MAR 23	334 000	1974
1975	22.7 AT 18:30 MST ON SEP 4	22.5 ON SEP 4	0.722B ON MAR 12	128 000	1975
1976	15.4 AT 00:00 MST ON APR 11	14.1 ON APR 11	0.176 ON OCT 9	54 900	1976
1977	18.1 AT 07:00 MST ON MAY 20	16.0 ON MAY 20	0.256 ON SEP 20	84 600	1977
1978	52.4 AT 08:30 MST ON JUN 1 *	52.1 ON JUN 1	0.102B ON MAR 8	187 040	1978
1979	34.9 AT 04:10 MST ON MAY 2	34.8 ON MAY 2	0.974 ON OCT 24	185 000	1979
1980	---	7.13B ON APR 11	0.080E ON AUG 2	38 600	1980
1981	8.86B AT 03:00 MST ON APR 1	8.21B ON APR 1	0.049 ON OCT 20	35 800	1981
1982	---	7.40B ON APR 24	0 B ON MAR 1 *	12 200	1982
1983	12.5 AT 21:01 MST ON JUL 23	12.4 ON JUL 23	0 B ON MAR 1	41 500	1983
1984	18.4 AT 22:19 MST ON JUN 8	18.3 ON JUN 9	0.085E ON AUG 31	80 400	1984
1985	---	10.5 ON APR 24	0.061E ON AUG 20	33 200	1985
1986	20.9 AT 12:38 MST ON JUL 24	20.8 ON JUL 24	0.010B ON MAR 9	43 300	1986
1987	31.5 AT 00:13 MST ON APR 13	26.8 B ON APR 12	0.008 ON JUL 31	43 700	1987
1988	1.90 AT 05:41 MST ON APR 13	1.51B ON APR 12	0.001 ON JUN 25	3 800	1988
				89 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ATHABASCA RIVER AT HINTON - STATION NO. 07AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	31.9	215	574	402	338	171	172	81.3	31.4	---	1961
1962	22.5	18.7	19.0	57.8	154	466	463	350	200	95.9	53.3	40.5	183	1962
1963	68.3	46.8	18.9	51.2	186	493	484	329	233	117	58.5	41.0	172	1963
1964	30.4	30.7	24.3	38.9	88.2	803	497	283	216	181	74.3	40.3	174	1964
1965	28.0	28.6	31.9	49.2	147	573	528	445	263	187	88.6	100	213	1965
1966	35.7	32.4	31.7	48.1	238	436	563	413	238	148	68.4	48.8	191	1966
1967	46.8	42.7	36.8	47.8	126	670	534	343	257	130	60.7	48.5	197	1967
1968	43.6	36.6	41.8	34.5	184	488	620	358	285	108	54.4	38.8	190	1968
1969	35.1	32.3	35.1	50.8	212	607	385	448	198	101	62.9	38.4	178	1969
1970	30.6	33.8	26.8	31.1	110	521	382	386	133	89.6	34.6	30.1	141	1970
1971	24.1	31.4	27.7	40.6	213	561	497	393	215	116	48.8	28.7	168	1971
1972	33.6	30.0	41.4	36.7	216	752	459	353	199	116	53.5	35.8	194	1972
1973	32.7	32.8	35.2	38.5	201	457	384	310	183	100	46.3	45.4	156	1973
1974	36.8	31.5	30.0	48.8	123	868	532	370	234	131	62.1	62.7	188	1974
1975	34.3	29.6	32.6	38.0	101	367	511	276	157	80.5	60.4	42.8	148	1975
1976	30.8	32.2	29.5	43.9	207	321	513	469	254	119	49.3	38.8	179	1976
1977	34.5	33.1	30.3	42.4	188	488	417	385	208	92.8	39.8	38.8	182	1977
1978	33.8	31.5	34.9	43.7	138	515	558	324	359	186	82.1	44.5	193	1978
1979	34.7	32.5	33.6	35.4	121	417	440	300	188	98.7	35.4	28.0	147	1979
1980	22.5	25.1	27.8	57.5	288	528	352	268	182	134	55.8	48.4	164	1980
1981	36.3	36.0	32.4	38.7	235	308	418	370	205	78.4	65.7	24.1	164	1981
1982	30.6	27.5	27.7	35.9	108	584	588	380	281	148	59.9	47.8	181	1982
1983	42.1	33.5	34.5	39.7	138	374	374	288	188	93.1	76.0	34.8	141	1983
1984	43.1	31.4	33.2	42.0	85.4	489	481	341	287	147	88.5	48.7	170	1984
1985	39.1	25.0	28.8	39.8	208	380	415	394	187	94.8	48.8	42.0	148	1985
1986	37.5	28.1	37.0	37.6	198	620	605	325	183	118	61.3	48.2	184	1986
1987	44.7	33.6	28.2	38.9	222	482	359	370	187	88.8	55.7	33.5	181	1987
1988	23.8	24.1	28.8	57.7	181	404	316	318	178	109	60.1	35.8	148	1988
MEAN	35.4	31.4	30.7	42.7	189	498	485	348	213	118	59.8	41.8	171	MEAN

LOCATION - LAT 53 24 39 N
LONG 117 36 11 W
DRAINAGE AREA, 9 780 km²
NATURAL FLOW

ATHABASCA RIVER AT HINTON - STATION NO. 07AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	818 AT 23:30 MST ON JUN 8	804 ON JUN 8	---	---	1981
1982	---	768A ON JUN 27	11.0B ON MAR 2	5 180 000	1982
1983	731 AT 14:00 MST ON JUN 29	719 ON JUN 30	10.5B ON MAR 14 *	5 470 000	1983
1984	850 AT 07:00 MST ON JUN 14	844 ON JUN 14	15.0B ON MAR 23	5 520 000	1984
1985	918 AT 17:00 MST ON JUL 9	900 ON JUL 9	15.7B ON DEC 26	8 700 000	1985
1986	778 AT 16:00 MST ON JUL 5	785 ON JUL 5	17.2B ON MAR 3	6 020 000	1986
1987	804 AT 17:00 MST ON JUN 18	855 ON JUN 18	24.4B ON NOV 26	6 220 000	1987
1988	1 040 AT 13:32 MST ON JUN 28	1 000 ON JUN 28	27.9B ON APR 3	8 020 000	1988
1989	1 060 AT 15:43 MST ON AUG 5	997 ON AUG 6	31.1B ON FEB 18	5 550 000	1989
1970	787 AT 14:30 MST ON JUN 17	778 ON JUN 17	19.8B ON NOV 26	4 450 000	1970
1971	934 AT 20:00 MST ON JUN 9	895 ON JUN 9	21.5B ON JAN 14	5 850 000	1971
1972	1 270 AT 02:30 MST ON JUN 13 *	1 200 ON JUN 12 *	27.8B ON JAN 1	5 140 000	1972
1973	894 AT 18:30 MST ON JUN 25	883 ON JUN 25	29.7 ON APR 8	4 850 000	1973
1974	1 080 AT 15:50 MST ON JUN 25	1 070 ON JUN 25	28.9B ON MAR 7	5 840 000	1974
1975	742 AT 09:30 MST ON JUL 8	738 ON JUL 8	28.3B ON FEB 25	4 610 000	1975
1976	846 AT 10:30 MST ON AUG 5	840 ON AUG 5	21.0B ON DEC 5	5 610 000	1976
1977	821 AT 08:30 MST ON JUN 9	770 ON JUN 9	19.3B ON NOV 21	5 110 000	1977
1978	971 AT 18:20 MST ON JUL 12	943 ON JUL 12	25.8B ON MAR 3	8 100 000	1978
1979	869 AT 05:00 MST ON JUN 8	859 ON JUN 8	17.5B ON DEC 16	4 840 000	1979
1980	795 AT 11:15 MST ON JUN 18	775 ON JUN 18	18.6B ON FEB 15	5 190 000	1980
1981	835 AT 16:10 MST ON MAY 27	818 ON MAY 27	17.0B ON DEC 15	4 850 000	1981
1982	1 030 AT 18:45 MST ON JUL 5	1 000 ON JUL 5	22.5B ON JAN 1	8 040 000	1982
1983	581 AT 03:55 MST ON JUN 1	569 ON JUN 1	25.0B ON DEC 18	4 440 000	1983
1984	1 090 AT 19:50 MST ON JUN 30	1 050 ON JUN 30	20.0B ON MAR 13	5 350 000	1984
1985	922 AT 12:45 MST ON JUL 1	911 ON JUL 1	18.2B ON FEB 21	4 710 000	1985
1986	1 080 AT 17:16 MST ON MAY 31	1 050 ON JUN 1	17.1B ON FEB 16	5 610 000	1986
1987	767 AT 16:59 MST ON JUN 14	733 ON JUN 14	25.0B ON MAR 1	5 080 000	1987
1988	864 AT 13:07 MST ON JUN 9	848 ON JUN 9	23.2B ON JAN 14	4 820 000	1988
				5 410 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ATHABASCA RIVER NEAR JASPER - STATION NO. 07AA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	---	---	---	118	48.5	26.3	15.6	---	1913
1914	13.6	9.13	9.45	15.3	87.4	233	332	184	90.4	53.7	24.3	15.3	87.2	1914
1915	15.3	13.1	12.0	21.3	112	225	265	341	97.1	45.1	23.8	20.3	102	1915
1916	7.81	13.7	12.9	21.0	44.5	251	295	208	128	61.8	30.3	17.1	91.1	1916
1917	12.2	11.2	8.90	9.89	89.7	198	267	175	105	75.9	33.7	24.9	85.8	1917
1918	20.9	11.3	10.4	18.8	97.5	215	277	189	121	63.2	22.7	18.8	88.4	1918
1919	13.0	9.77	10.3	18.1	78.3	195	258	231	113	38.2	29.1	18.2	84.1	1919
1920	10.3	9.78	9.07	11.8	40.5	191	290	232	117	62.2	26.6	14.8	83.4	1920
1921	12.5	11.0	9.48	19.8	75.5	250	270	213	91.8	47.2	31.1	29.7	85.8	1921
1922	16.4	11.4	8.22	13.0	87.7	242	270	255	158	54.1	---	---	---	1922
1923	---	---	---	---	85.8	273	272	232	135	52.8	33.8	14.8	---	1923
1924	8.75	10.8	9.98	11.2	118	188	263	226	150	63.7	31.8	12.8	82.3	1924
1925	---	8.38	13.6	18.2	185	266	304	244	141	42.7	21.8	17.9	---	1925
1926	8.88	10.6	13.4	28.3	81.6	187	253	174	102	41.8	21.8	12.7	78.2	1926
1927	8.19	7.91	8.61	15.9	88.5	215	236	204	118	68.8	22.9	8.74	80.7	1927
1928	13.8	9.51	8.88	9.17	174	277	331	219	102	37.0	21.4	14.1	102	1928
1929	8.54	8.47	7.94	11.3	82.1	282	318	222	107	54.5	20.8	11.8	85.7	1929
1930	8.84	8.98	8.95	23.0	77.8	288	307	243	124	42.8	21.0	14.3	95.8	1930
1931	10.3	8.16	8.89	10.8	81.8	282	---	---	---	---	---	---	---	1931
1970	---	---	---	---	87.0	277	230	177	82.3	31.7	13.0	10.8	---	1970
1971	8.48	12.4	8.65	14.7	105	248	232	225	104	48.3	23.8	15.0	87.0	1971
1972	12.6	12.0	12.0	11.3	110	274	328	223	97.5	46.8	22.0	14.2	97.4	1972
1973	12.7	12.5	9.56	13.4	89.8	323	301	208	91.7	44.0	17.3	15.6	78.7	1973
1974	12.1	12.4	9.97	19.6	83.2	300	288	202	113	51.7	25.1	17.8	93.1	1974
1975	13.4	12.6	10.8	11.6	46.9	183	311	158	83.0	46.4	40.0	16.8	78.3	1975
1976	14.2	12.1	11.1	17.0	107	189	289	270	142	54.8	24.8	19.0	85.5	1976
1977	13.2	10.5	8.37	17.2	83.1	233	288	203	98.1	38.5	23.3	15.1	77.1	1977
1978	13.6	11.5	8.73	15.5	82.1	273	316	186	195	71.7	28.3	20.4	101	1978
1979	13.2	11.0	11.6	12.4	83.9	219	284	187	110	48.7	12.8	12.8	78.8	1979
1980	13.4	11.1	9.33	39.7	183	211	197	152	88.7	80.3	22.4	30.7	82.8	1980
1981	17.3	10.6	12.0	15.9	121	184	248	240	115	35.0	26.7	14.1	84.7	1981
1982	11.6	10.9	9.29	10.3	48.4	304	294	185	143	51.8	21.7	17.1	83.2	1982
1983	12.7	9.36	10.8	12.8	85.4	209	212	190	87.1	46.8	34.0	18.7	75.1	1983
1984	13.8	10.5	10.0	15.7	38.2	254	254	210	122	51.8	37.8	16.9	85.8	1984
1985	13.1	10.7	9.77	12.0	102	178	235	158	78.8	38.1	14.5	11.7	71.8	1985
1986	10.8	8.88	11.0	13.8	88.4	321	251	194	91.2	48.1	26.0	18.0	81.1	1986
1987	11.8	8.80	10.4	13.8	111	250	234	178	107	41.8	21.2	11.0	83.0	1987
1988	11.0	10.3	10.3	24.5	93.7	219	177	190	103	57.0	28.1	18.3	78.5	1988
MEAN	12.2	10.6	10.1	16.5	83.4	242	264	209	112	50.7	24.8	16.4	87.4	MEAN

LOCATION - LAT. 52 54 36 N, LONG 118 03 25 W
DRAINAGE AREA, 3 880 km^2
NATURAL FLOW

ATHABASCA RIVER NEAR JASPER - STATION NO. 07AA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	482 ON JUL 4	8.868 ON FEB 28	2 760 000	1914
1915	---	555 ON JUN 27	11.4 B ON MAR 28	3 210 000	1915
1916	---	517 OR JUL 13	3.798 ON JAN 24	2 880 000	1916
1917	---	388 E) JUL 19	8.34 ON MAR 24	2 700 000	1917
1918	---	544 ON JUN 14	5.808 ON MAR 3	3 010 000	1918
1919	---	518 ON JUN 22	7.088 ON DEC 18	2 850 000	1919
1920	---	515 ON JUL 4	5.868 ON JAN 18	2 850 000	1920
1921	---	433 ON JUN 24	7.838 ON MAR 12	2 830 000	1921
1922	---	384 ON JUL 4	4.818 ON MAR 28	---	1922
1923	---	439 ON JUN 14	---	---	1923
1924	---	402 ON JUL 3	4.988 ON JAN 31	2 920 000	1924
1925	---	381 ON JUN 27	8.848 ON FEB 23	---	1925
1926	---	368 ON JUL 5	8.518 ON JAN 3	2 470 000	1926
1927	---	311 ON JUN 10	8.778 ON MAR 10	2 880 000	1927
1928	---	569 ON MAY 27	4.818 ON MAR 14	3 220 000	1928
1929	---	484 ON JUN 2	3.688 ON JAN 30 *	2 700 000	1929
1930	---	552 ON JUN 11	4.818 ON JAN 31	3 020 000	1930
1931	---	---	8.23 ON MAR 28	---	1931
1970	---	374 ON JUN 21	---	---	1970
1971	---	388 ON JUN 8	8.078 ON JAN 15	2 740 000	1971
1972	---	537 ON JUN 11	8.55 ON APR 3	3 080 000	1972
1973	---	436 ON JUN 25	8.48 ON MAR 19	2 480 000	1973
1974	---	512 ON JUN 23	8.21 ON MAR 18	2 940 000	1974
1975	---	425 ON JUL 12	8.208 ON MAR 30	2 470 000	1975
1976	---	371 ON JUL 8	8.208 ON MAR 2	3 020 000	1976
1977	374 AT 08:30 MST ON JUN 8	357 ON JUN 8	8.308 ON MAR 31	2 430 000	1977
1978	467 AT 19:45 MST ON SEP 4	439 ON SEP 5	7.70A ON MAR 21	3 170 000	1978
1979	390 AT 05:30 MST ON JUL 22	380 ON JUL 21	7.71A ON APR 6	2 490 000	1979
1980	383 AT 08:35 MST ON JUN 17	363 ON JUN 17	8.008 ON MAR 23	2 810 000	1980
1981	348 AT 12:25 MST ON MAY 26	333 ON MAY 26	9.008 ON JAN 30	2 870 000	1981
1982	480 AT 03:00 MST ON JUN 23	479 ON JUN 22	8.50E ON MAR 27	2 940 000	1982
1983	353 AT 21:35 MST ON JUL 12	318 ON JUL 13	7.808 ON FEB 10	2 400 000	1983
1984	722 AT 12:30 MST ON JUN 29 *	642A ON JUN 29 *	8.588 ON MAR 14	2 710 000	1984
1985	327 AT 12:05 MST ON JUN 30	303 ON JUN 30	8.508 ON DEC 1	2 280 000	1985
1986	636 AT 08:05 MST ON JUN 2	577 ON MAY 30	8.008 ON FEB 18	2 870 000	1986
1987	442 AT 09:55 MST ON JUN 13	422 ON JUN 13	7.508 ON FEB 24	2 620 000	1987
1988	383 AT 09:28 MST ON JUN 8	384 ON JUN 8	8.33 ON MAR 14	2 480 000	1988
				2 760 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ATHABASCA RIVER NEAR WINDFALL - STATION NO. 07AE001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	248	707	813	409	226	145	72.3	81.0	---	1960
1961	65.7	57.8	55.1	84.3	317	592	502	399	207	237	138	80.1	311	1961
1962	84.2	53.5	43.2	158	360	814	529	488	294	190	111	138	337	1962
1963	102	57.5	40.8	171	319	834	545	373	291	182	84.8	65.4	317	1963
1964	49.3	54.4	28.1	58.1	247	777	548	477	381	272	103	84.2	381	1964
1965	38.8	41.6	42.8	157	359	895	1 080	578	485	301	151	57.8	497	1965
1966	56.8	56.3	48.5	117	534	895	734	547	389	250	133	77.6	412	1966
1967	47.8	48.6	37.3	48.5	237	856	851	485	287	147	83.3	63.5	340	1967
1968	43.8	35.7	63.2	77.8	248	891	704	485	288	145	78.1	52.6	327	1968
1969	39.8	46.1	46.1	77.0	285	976	488	838	278	153	86.2	60.9	312	1969
1970	47.7	53.2	50.4	92.4	314	832	457	314	155	85.8	57.3	48.7	251	1970
1971	36.4	37.8	39.9	129	288	890	892	448	278	189	78.4	87.0	387	1971
1972	64.0	42.6	70.2	87.1	388	1 030	581	437	278	219	102	71.7	383	1972
1973	56.8	54.2	57.8	131	418	816	484	395	203	170	88.4	83.2	308	1973
1974	50.2	47.8	47.0	104	349	678	636	428	288	172	90.9	86.5	345	1974
1975	48.8	48.8	40.1	72.1	207	441	618	309	189	120	103	80.4	250	1975
1976	48.4	54.2	43.0	128	298	838	834	888	381	172	85.1	82.7	343	1976
1977	53.8	52.6	51.5	80.2	427	878	842	547	387	202	93.8	82.3	376	1977
1978	57.4	53.7	52.0	129	358	868	721	424	484	228	---	---	373	1978
1979	---	---	50.3	92.8	257	844	598	387	231	135	---	---	288	1979
1980	---	---	43.8	138	352	887	523	378	284	200	---	---	348	1980
1981	---	---	58.7	86.5	343	830	504	488	258	118	---	---	283	1981
1982	---	---	43.1	83.7	288	895	939	523	404	248	---	---	402	1982
1983	---	---	49.7	78.5	188	828	583	385	198	128	---	---	281	1983
1984	---	---	46.7	100	181	873	534	387	373	234	---	---	304	1984
1985	---	---	53.0	87.2	286	858	488	363	288	175	---	---	259	1985
1986	---	---	58.2	86.0	300	785	893	408	288	223	---	---	353	1986
1987	---	---	53.2	115	277	845	431	576	280	130	---	---	298	1987
1988	---	---	51.3	107	218	878	378	341	203	130	---	---	238	1988
MEAN	53.7	50.2	48.9	104	299	853	624	454	291	181	93.5	86.1	332	MEAN

LOCATION - LAT 54 12 28 N, LONG 118 03 45 W
DRAINAGE AREA, 19 800 km^2
NATURAL FLOW

ATHABASCA RIVER NEAR WINDFALL - STATION NO. 07AE001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	2 070 ON JUN 26	---	---	1980
1981	---	949 ON MAY 29	46.40 ON MAR 10	5 890 000	1981
1982	---	988 ON JUN 29	32.88 ON MAR 5	7 120 000	1982
1983	---	917 ON JUN 21	29.78 ON APR 2	5 700 000	1983
1984	---	1 230 ON JUN 20	23.48 ON MAR 30 *	7 830 000	1984
1985	---	2 130 ON JUL 10 *	30.38 ON MAR 31	10 500 000	1985
1986	---	1 190 ON AUG 25	36.58 ON MAR 8	8 720 000	1986
1987	---	1 170 ON JUN 20	26.28 ON MAR 14	7 200 000	1987
1988	1 210 AT 12:10 MST ON JUN 29	1 180 ON JUN 29	58.18 ON MAR 1	8 820 000	1988
1989	1 670 AT 09:52 MST ON AUG 7	1 780 ON AUG 7	43.98 ON MAR 1	8 800 000	1989
1970	1 030 AT 20:39 MST ON JUN 17	848 ON JUN 18	42.58 ON MAR 8	5 320 000	1970
1971	1 780 AT 05:00 MST ON JUN 11	1 700 ON JUL 12	38.88 ON MAR 1	8 400 000	1971
1972	1 970 AT 07:00 MST ON JUN 14 *	1 870 ON JUN 14	44.28 ON MAR 1	8 110 000	1972
1973	1 200 AT 08:00 MST ON JUN 26	1 170 ON JUN 26	55.88 ON MAR 1	6 550 000	1973
1974	1 360 AT 08:10 MST ON JUN 19	1 250 ON JUN 19	42.58 ON MAR 1	7 300 000	1974
1975	858 AT 05:30 MST ON JUL 8	850 ON JUL 8	39.68 ON MAR 11	5 290 000	1975
1976	1 070 AT 08:00 MST ON AUG 18	1 040 ON AUG 18	42.28 ON MAR 8	7 250 000	1976
1977	---	880A ON JUN 10	45.38 ON MAR 29	7 830 000	1977
1978	1 540 AT 04:00 MST ON JUL 13	1 480 ON JUL 13	43.08 ON MAR 13	7 800 000	1978
1979	1 080 AT 23:15 MST ON JUL 12	1 000 ON JUL 12	43.48 ON MAR 1	8 040 000	1979
1980	1 930 AT 07:10 MST ON JUN 6	1 870 ON JUN 6	38.08 ON MAR 8	7 380 000	1980
1981	818 AT 13:50 MST ON MAY 28	809 ON MAY 28	46.88 ON MAR 23	6 000 000	1981
1982	1 820 AT 18:25 MST ON JUL 5	1 790 ON JUL 5	36.08 ON MAR 1	8 520 000	1982
1983	811 AT 17:10 MST ON JUN 23	802 ON JUN 23	38.88 ON MAR 23	5 520 000	1983
1984	1 090 AT 11:35 MST ON JUL 1	1 060 ON JUL 1	42.08 ON MAR 13	8 440 000	1984
1985	784 AT 02:15 MST ON JUN 25	767 ON JUN 25	40.78 ON MAR 29	5 710 000	1985
1986	1 350 AT 20:51 MST ON JUL 18	1 290 ON JUL 18	47.78 ON APR 14	7 480 000	1986
1987	1 570 AT 13:10 MST ON AUG 3	1 510 ON AUG 3	52.08 ON MAR 10	8 330 000	1987
1988	782 AT 02:28 MST ON JUN 10	781 ON JUN 10	47.28 ON MAR 15	5 040 000	1988
				7 020 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BEAVER RIVER AT COLD LAKE RESERVE - STATION NO. 06AD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	---	---	---	---	---	---	10.2	3.33	2.11	---	1955
1956	2.18	2.85	2.80	77.8	85.1	80.3	111	49.6	41.1	41.0	23.0	9.30	43.2	1956
1957	4.78	3.84	3.09	30.2	38.7	18.1	15.0	12.7	11.3	18.1	13.1	6.85	14.7	1957
1958	5.75	5.07	4.85	85.8	82.4	19.8	7.73	3.80	7.39	10.8	5.82	3.03	17.8	1958
1959	1.28	1.11	2.35	17.1	14.0	16.2	28.9	11.8	42.2	33.8	23.1	7.14	18.4	1959
1960	3.93	0.812	1.87	37.0	87.0	78.8	71.4	87.0	77.8	40.7	25.5	15.5	43.3	1960
1961	10.2	7.04	8.26	43.2	78.4	31.8	24.6	32.3	7.48	4.18	4.82	3.01	21.4	1961
1962	1.80	1.94	2.35	38.4	89.9	284	145	87.0	37.7	28.5	23.3	10.4	60.8	1962
1963	7.07	5.52	5.53	115	112	44.5	20.0	9.81	7.65	5.89	2.48	1.42	28.0	1963
1964	0.888	0.804	1.70	19.2	32.1	13.3	8.10	10.5	21.9	20.2	9.24	3.90	11.2	1964
1965	3.88	3.37	3.89	28.5	88.0	118	53.8	15.5	28.7	18.4	11.2	7.44	31.4	1965
1966	3.25	3.58	4.80	48.2	34.7	48.5	20.4	19.9	26.0	10.4	7.55	4.42	18.9	1966
1967	4.58	4.07	3.75	17.2	72.6	23.8	10.3	10.6	3.93	3.43	3.80	1.64	13.4	1967
1968	1.30	1.80	3.81	12.3	7.85	8.29	4.03	4.25	11.5	24.2	10.5	3.20	7.81	1968
1969	1.94	1.85	3.78	80.4	80.8	25.2	11.9	13.8	14.5	24.5	11.3	8.97	21.5	1969
1970	4.01	3.18	3.88	53.3	40.8	21.8	184	71.1	83.5	53.7	34.1	17.8	44.6	1970
1971	11.8	9.80	9.69	112	100	57.2	137	47.7	18.2	11.8	8.13	5.25	44.3	1971
1972	3.58	3.72	4.38	40.4	77.0	20.2	8.72	7.57	5.02	7.00	4.43	2.19	15.5	1972
1973	2.54	3.59	2.81	15.4	21.4	53.4	38.4	50.3	84.5	48.1	27.1	17.8	27.8	1973
1974	10.9	8.91	8.67	194	248	91.0	45.1	23.8	21.8	19.8	12.3	7.81	83.7	1974
1975	8.20	8.48	8.00	42.0	82.7	58.5	82.8	39.0	38.1	19.4	11.3	8.02	33.4	1975
1976	7.90	8.85	8.05	38.1	17.5	18.0	85.1	28.5	28.7	13.4	8.82	3.76	18.7	1976
1977	4.72	4.70	4.33	21.3	33.4	25.5	15.3	20.7	14.3	22.1	10.2	4.86	15.2	1977
1978	4.88	4.98	5.48	33.0	40.3	85.7	30.3	9.78	32.7	29.9	11.3	7.35	23.6	1978
1979	5.82	5.13	5.19	40.4	81.8	85.1	41.4	19.8	16.3	13.7	8.14	4.93	26.3	1979
1980	3.60	3.03	3.05	32.6	12.5	7.41	4.84	28.4	31.8	27.7	11.7	5.93	14.8	1980
1981	4.80	4.78	5.54	24.6	16.5	8.98	23.7	9.28	3.86	2.88	2.70	2.18	9.38	1981
1982	1.50	1.40	1.85	13.4	28.0	11.2	10.3	7.03	4.72	3.47	2.27	1.80	7.02	1982
1983	2.08	1.93	2.13	8.73	8.96	7.24	18.3	11.3	5.77	4.52	4.86	2.04	8.75	1983
1984	1.96	2.08	3.87	15.7	18.7	48.4	15.0	5.86	5.84	7.78	7.08	4.32	11.1	1984
1985	2.71	2.26	2.68	36.6	77.8	22.8	8.27	3.21	2.31	3.03	1.88	0.869	13.8	1985
1986	1.38	1.68	3.00	18.3	16.9	9.76	33.4	31.3	5.84	3.54	2.38	2.58	10.7	1986
1987	2.28	2.64	2.88	46.3	28.3	18.1	7.83	5.08	4.50	2.97	2.00	1.27	10.1	1987
1988	1.12	0.877	1.55	9.89	8.82	7.82	28.8	13.5	10.2	5.13	3.10	2.44	7.46	1988
MEAN	4.14	3.68	4.28	42.2	53.7	42.9	39.3	24.8	21.4	17.5	10.3	5.53	22.8	MEAN

LOCATION - LAT 54 21 15 N, LONG 110 13 00 W
DRAINAGE AREA, 14 500 km^2
NATURAL FLOW

BEAVER RIVER AT COLD LAKE RESERVE - STATION NO. 06AD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	214 ON APR 28	1.85 B ON JAN 1	1 380 000	1957
1958	---	82.4 ON APR 27	2.10 B ON MAR 1	484 000	1958
1959	118 AT 14:00 MST ON APR 11	118 ON APR 11	1.75 B ON DEC 20	555 000	1959
	82.9 AT 08:30 MST ON SEP 8	62.5 ON SEP 7	0.9538 ON FEB 17	516 000	
1960	---	154 ON AUG 3	0.5588 ON FEB 17	1 370 000	1960
1961	105 AT 18:00 MST ON APR 28	105 ON APR 28	1.68 B ON DEC 28	878 000	1961
1962	817 AT 03:00 MST ON JUN 13 *	812 ON JUN 13 *	1.85 B ON JAN 2	1 920 000	1962
1963	---	275 ON APR 19	1.03 B ON DEC 20	884 000	1963
1964	---	41.9 ON MAY 14	0.3848 ON FEB 14 *	354 000	1964
1965	---	159 ON JUN 7	2.08 B ON MAR 30	988 000	1965
1966	---	73.3 ON APR 10	2.86 B ON FEB 4	595 000	1966
1967	---	101 B ON MAY 1	1.30 ON DEC 31	423 000	1967
1968	---	36.2 ON OCT 1	1.18 B ON JAN 10	341 000	1968
1969	---	182 ON APR 20	1.44 B ON FEB 28	877 000	1969
1970	263 AT 12:38 MST ON JUL 10	251 ON JUL 10	3.00 B ON FEB 17	1 410 000	1970
1971	275 AT 18:00 MST ON APR 30	268 ON APR 25	3.54 B ON DEC 25	1 400 000	1971
1972	110 AT 10:30 MST ON MAY 3	109 ON MAY 3	1.64 B ON DEC 14	488 000	1972
1973	104 AT 08:30 MST ON JUN 23	103 ON JUN 22	1.78 B ON MAR 11	881 000	1973
1974	---	394 A ON APR 28	5.71 B ON DEC 31	1 700 000	1974
1975	158 B AT 23:00 MST ON APR 25	135 ON APR 28	5.85 B ON APR 3	1 050 000	1975
1976	99.7 AT 15:00 MST ON JUL 20	89.1 ON JUL 20	3.40 B ON DEC 18	824 000	1976
1977	70.5 AT 00:00 MST ON APR 17	51.3 ON MAY 31	4.02 B ON JAN 1	479 000	1977
1978	171 AT 04:00 MST ON JUN 6	158 ON JUN 6	4.84 B ON MAR 1	750 000	1978
1979	205 B AT 08:50 MST ON APR 28	181 B ON APR 28	4.05 B ON DEC 30	831 000	1979
1980	150 B AT 09:45 MST ON APR 18	108 B ON APR 16	2.88 B ON MAR 2	467 000	1980
1981	37.4 AT 13:30 MST ON JUL 15	37.0 ON JUL 15	1.75 B ON DEC 31	295 000	1981
1982	48.6 AT 05:00 MST ON APR 29	47.7 ON APR 29	1.28 B ON FEB 27	231 000	1982
1983	---	28.0E ON AUG 1	1.85 B ON FEB 4	213 000	1983
1984	70.8 AT 16:37 MST ON JUN 7	70.5 ON JUN 9	1.80 B ON JAN 23	350 000	1984
1985	113 AT 12:08 MST ON MAY 13	113 ON MAY 13	0.9268 ON DEC 18	437 000	1985
1986	84.0 AT 19:25 MST ON JUL 26	83.4 ON JUL 26	1.04 B ON JAN 1	336 000	1986
1987	84.3 AT 05:18 MST ON APR 18	79.8 ON APR 19	1.30 B ON DEC 10	317 000	1987
1988	60.8E AT 05:55 MST ON JUL 24	60.8A ON JUL 24	0.7408 ON FEB 10	238 000	1988
				712 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BEAVER RIVER NEAR GODDERIDGE - STATION NO. 06AA001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	0.331	0.440	0.627	---	---	---	1967
1968	---	---	1.86	2.37	1.16	1.19	0.372	0.470	1.15	1.84	---	---	1.39	1968
1969	---	---	---	---	13.2	4.85	1.42	2.79	4.84	5.25	---	---	---	1969
1970	---	---	0.401	20.7	8.46	3.31	42.6	21.1	12.8	11.0	---	---	15.2	1970
1971	---	---	2.55	54.4	33.6	23.1	44.5	14.1	6.19	2.82	---	---	22.6	1971
1972	---	---	0.598	17.2	22.4	6.16	3.86	1.89	1.35	1.15	---	---	5.70	1972
1973	---	---	0.515	2.19	2.84	13.5	4.22	6.61	5.22	4.67	---	---	5.11	1973
1974	---	---	1.89	54.9	51.9	16.3	11.2	6.45	5.08	4.29	---	---	18.9	1974
1975	---	---	1.41	14.8	15.4	7.44	17.0	7.48	16.0	8.15	---	---	10.7	1975
1976	---	---	2.04	14.4	5.11	2.98	7.50	1.81	1.17	0.841	---	---	4.42	1976
1977	---	---	0.656	10.0	14.6	7.87	2.01	2.38	2.72	7.58	---	---	5.84	1977
1978	---	---	2.14	20.0	13.3	27.5	5.84	2.47	15.7	12.6	---	---	14.0	1978
1979	---	---	3.82	26.0	32.8	26.2	17.7	7.71	4.41	2.18	---	---	14.3	1979
1980	---	---	0.804	11.5	3.17	1.80	0.844	3.88	3.06	2.55	---	---	3.33	1980
1981	---	---	4.34	8.88	3.37	1.85	2.73	1.11	0.343	0.174	---	---	2.88	1981
1982	---	---	0.233	4.64	2.88	0.586	0.276	0.155	0.075	0.050	---	---	1.08	1982
1983	---	---	0.029	1.74	0.524	3.11	4.93	2.90	2.42	1.96	---	---	2.33	1983
1984	---	---	2.18	5.34	3.76	14.0	1.82	0.338	0.485	0.884	---	---	3.83	1984
1985	---	---	0.542	15.5	16.7	1.76	0.490	0.118	0.013	0.135	---	---	4.83	1985
1986	---	---	1.15	3.65	1.31	0.374	7.28	4.88	0.537	0.364	---	---	2.48	1986
1987	---	---	0.488	18.0	3.73	1.80	0.281	0.578	0.407	0.173	---	---	3.87	1987
1988	---	---	0.403	0.738	0.375	0.137	0.128	0.023	0.005	0.005	---	---	0.236	1988
MEAN	---	---	1.38	15.4	11.8	8.02	8.52	4.07	3.97	3.07	---	---	7.13	MEAN

LOCATION - LAT 54 26 08 N, LONG 111 32 00 W
DRAINAGE AREA, 4 710 km^2
NATURAL FLOW

BEAVER RIVER NEAR GOODRIDGE - STATION NO. 05AA001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	7.388 ON MAR 27	0.1428 ON MAR 1	27 200	1969
		---	---	---	
1970	79.6 AT 12:20 MST ON JUL 8	78.0 ON JUL 8	0.2838 ON MAR 1	322 000	1970
1971	127 AT 00:30 MST ON APR 22	126 ON APR 22	1.77 B ON OCT 27	478 000	1971
1972	34.5 AT 02:20 MST ON APR 28	34.3 ON APR 27	0.3578 ON MAR 25	142 000	1972
1973	35.7 AT 10:20 MST ON JUN 20	35.4 ON JUN 20	0.1138 ON MAR 1	108 000	1973
1974	148 AT 23:00 MST ON APR 19 *	143 ON APR 20 *	1.27 B ON APR 8	400 000	1974
1975	56.6 B AT 20:00 MST ON APR 23	42.8 ON APR 24	1.33 B ON MAR 24	226 000	1975
1976	---	22.9 B ON APR 9	0.575 ON OCT 7	93 800	1976
1977	25.2 AT 18:15 MST ON MAY 20	24.0 ON MAY 20	0.6238 ON MAR 22	126 000	1977
1978	84.3 AT 15:15 MST ON JUN 2	82.9 ON JUN 2	0.1505 ON MAR 21	286 000	1978
1979	74.6 B AT 19:30 MST ON APR 23	71.2 ON APR 24	1.60 ON OCT 25	303 000	1979
1980	29.0 B AT 13:30 MST ON APR 13	28.5 B ON APR 13	0.344 ON JUL 22	70 800	1980
1981	14.3 B AT 12:55 MST ON APR 1	14.2 B ON APR 1	0.100 ON OCT 21	60 300	1981
1982	---	15.8 B ON APR 25	0.0048 ON MAR 1	22 800	1982
1983	15.5 AT 12:21 MST ON JUL 25	15.4 ON JUL 25	0.0058 ON MAR 1	48 300	1983
1984	22.9 AT 13:14 MST ON JUN 4	22.8 ON JUN 4	0.030 ON AUG 30	74 700	1984
1985	29.7 AT 13:08 MST ON MAY 5	29.6 ON MAY 5	0.005 ON SEP 11	95 900	1985
1986	22.2 AT 08:32 MST ON JUL 28	22.1 ON JUL 28	0.0808 ON MAR 7	52 500	1986
1987	43.7 AT 12:28 MST ON APR 14	41.5 B ON APR 14	0.0758E ON OCT 30	80 700	1987
1988	1.12 AT 10:21 MST ON MAR 29	1.018 ON MAR 29	0.001 ON OCT 18 *	4 790	1988
				151 000	MEAN

B - ICE CONDITIONS
E - ESTIMATE
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BEDDINGTON CREEK NEAR CALGARY - STATION NO. 05BM804

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	0.042	0.127	0.011	0.021	0.021	---	---	---	1982
1983	---	---	---	---	0.084	0.044	0.058	0.012	0.025	0.037	---	---	---	1983
1984	---	---	---	0.121	0.034	0.055	0.015	0.034	0.028	0.006	---	---	0.041	1984
1985	---	---	---	0.088	0.038	0.013	0.013	0.028	0.103	0.038	---	---	0.048	1985
1986	---	---	---	0.044	0.237	0.047	0.172	0.028	0.115	0.180	---	---	0.115	1986
1987	---	---	---	---	0.100	0.022	0.180	0.080	0.080	0.032	---	---	---	1987
1988	---	---	---	0.323	0.038	0.051	0.025	0.042	0.018	0.030	---	---	0.074	1988
MEAN	---	---	---	0.144	0.088	0.038	0.081	0.034	0.051	0.046	---	---	0.089	MEAN

LOCATION - LAT 51 12 30 N, LONG 114 09 40 W
DRAINAGE AREA, 250 km^2, NATURAL FLOW
DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

BEDDINGTON CREEK NEAR CALGARY - STATION NO. 05BM804

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	0.2508 ON APR 1	0.002 ON AUG 27 *	783	1984
1985	0.719 AT 21:30 MST ON SEP 12	0.385 ON SEP 13	0.002 ON AUG 7	844	1985
1986	2.07 AT 07:40 MST ON MAY 17 *	1.09 ON MAY 20	0.008 ON JUN 27	2 130	1986
1987	---	1.83 ON JUL 28 *	---	---	1987
1988	---	1.00 E ON APR 1	0.002 ON JUL 28	1 370	1988
				1 280	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERLAND RIVER NEAR THE MOUTH - STATION NO. 07AC007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	11.1	26.4	86.9	81.0	137	51.1	41.2	81.7	---	---	59.7	1986
1987	---	---	11.3	30.3	35.5	31.3	27.2	140	36.1	22.9	---	---	41.8	1987
1988	---	---	10.8	21.7	19.6	51.5	32.2	18.2	15.4	14.2	---	---	22.9	1988
MEAN	---	---	11.0	26.1	40.7	54.8	65.5	69.8	30.9	32.6	---	---	41.5	MEAN

LOCATION - LAT 54 00 47 N, LONG 118 57 47 W
DRAINAGE AREA, 4 740 km^2, NATURAL FLOW

BERLAND RIVER NEAR THE MOUTH - STATION NO. 07AC007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	407R AT 10:21 MST ON JUL 19	394R ON JUL 19	8.208B ON MAR 1	1 240 000R	1986
1987	846 AT 03:16 MST ON AUG 3 *	708 ON AUG 3 *	10.0 B ON MAR 1	887 000	1987
1988	176 AT 11:28 MST ON JUN 12	164 ON JUN 12	7.848 ON MAR 3 *	484 000	1988
				870 000R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1987

BOW RIVER BELOW BASSANO DAM - STATION NO. 05BM004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1910	---	---	---	---	---	329	280	174	123	108	---	---	---	1910
1911	---	---	---	---	115	415	307	271	180	92.9	---	---	---	1911
1913	---	---	---	---	---	---	---	---	---	---	---	---	---	1913
1914	---	---	---	---	---	339	246	238	142	---	---	---	---	1914
								132	77.9	88.5	63.1	28.1	---	
1915	35.7	---	---	---	273	523	772	352	187	---	82.8	38.4	---	1915
1916	28.2	33.0	55.2	83.2	162	831	883	344	292	140	78.4	51.3	387	1916
1917	46.8	51.1	58.5	55.6	248	586	349	182	118	86.0	54.1	---	239	1917
1918	---	---	---	86.5	103	319	183	137	78.2	89.4	45.8	34.9	134	1918
1919	45.8	35.2	33.5	61.9	152	185	109	178	75.8	51.4	39.0	34.4	118	1919
1920	32.1	30.1	43.9	82.5	197	248	455	148	85.2	83.8	41.5	30.0	181	1920
1921	37.8	33.6	---	79.6	186	272	159	103	28.8	42.3	38.7	34.9	122	1921
1922	32.0	27.2	32.4	86.3	139	248	139	104	84.8	53.4	41.1	35.3	116	1922
1923	31.2	27.6	28.6	48.4	80.6	851	303	188	94.8	82.8	60.9	34.8	234	1923
1924	32.6	40.2	36.2	82.4	135	236	202	710	80.7	84.3	51.2	32.8	142	1924
1925	43.3	38.0	66.5	131	193	322	179	147	105	122	76.8	54.1	171	1925
1926	36.4	48.3	65.8	82.3	88.0	132	143	75.4	273	194	80.8	53.7	134	1926
1927	43.1	44.8	60.4	82.4	147	487	341	213	233	188	84.7	53.3	243	1927
1928	68.4	52.0	119	102	188	518	426	175	80.0	78.7	49.8	34.3	227	1928
1929	32.7	34.0	48.9	72.6	139	480	89.8	70.8	36.5	16.8	42.3	30.3	130	1929
1930	28.8	46.8	59.8	86.7	101	301	185	78.8	35.7	52.2	44.9	40.8	118	1930
1931	30.8	29.0	45.2	47.1	18.3	150	108	46.6	45.2	80.7	34.7	---	88.8	1931
1932	---	---	---	---	178	818	170	101	92.7	78.4	44.5	34.3	---	1932
1933	33.9	33.2	40.5	101	198	285	---	---	---	---	---	---	---	1933
1984	---	---	---	---	---	259	138	25.2	11.0	58.3	---	---	---	1984
1985	---	---	---	---	78.8	305	347	153	135	141	---	---	---	1985
1986	---	---	---	---	148	280	214	90.9	61.8	58.8	---	---	---	1986
1987	---	---	---	---	188	581	188	61.5	88.8	38.6	---	---	---	1987
1988	---	---	---	---	47.7	195	104	87.2	87.9	88.8	---	---	---	1988
1989	---	---	---	---	190	302	343	82.5	51.2	52.6	---	---	---	1989
1970	---	---	---	---	118	248	115	44.3	19.2	58.5	---	---	---	1970
1971	---	---	---	---	146	253	73.6	61.2	21.7	28.5	---	---	---	1971
1972	---	---	---	---	148	375	225	135	85.1	84.8	---	---	---	1972
1973	---	---	---	---	131	228	114	36.4	27.4	40.8	---	---	---	1973
1974	---	---	---	---	207	342	168	89.8	50.9	47.8	---	---	---	1974
1975	---	---	---	---	134	212	120	39.4	35.9	49.8	---	---	---	1975
1976	---	---	---	---	133	47.7	122	172	76.5	39.7	---	---	---	1976
1977	---	---	---	---	20.4	40.3	15.4	60.1	22.0	31.2	---	---	---	1977
1978	---	---	---	---	127	258	124	84.8	86.5	80.2	---	---	---	1978
1979	---	---	---	---	120	89.1	23.4	18.1	11.8	14.2	---	---	---	1979
1980	---	---	---	---	124	248	28.2	30.1	20.3	85.8	---	---	---	1980
1981	---	---	---	---	286	273	239	184	45.7	11.0	---	---	---	1981
1982	---	---	---	---	81.7	189	117	15.5	17.8	38.1	---	---	---	1982
1983	---	---	---	---	82.7	81.5	88.1	20.0	6.55	7.09	---	---	---	1983
1984	---	---	---	50.7	8.71	78.9	30.8	10.9	10.4	8.30	---	---	27.8	1984
1988	---	---	---	72.8	48.8	40.2	4.84	7.73	82.8	88.1	---	---	40.8	1988
1986	---	---	---	---	76.9	250	85.1	24.8	38.2	118	---	---	---	1986
1987	---	---	---	85.0	103	17.8	38.1	33.4	47.0	38.8	---	---	47.8	1987
1988	---	---	---	38.4	5.04	88.2	25.1	26.3	25.8	35.8	---	---	31.4	1988
MEAN	37.8	37.8	53.1	72.2	130	287	192	111	77.4	88.3	53.9	38.8	143	MEAN

LOCATION - LAT 50 45 00 N
LONG 112 32 20 W

DRAINAGE AREA, 20 300 km²
REGULATED

BOW RIVER BELOW BASSANO DAM - STATION NO. 05BM004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1910	---	425 ON JUN 14	---	---	1910
1911	---	648 ON AUG 9	---	---	1911
1913	---	---	---	---	1913
1914	---	405 ON JUN 18	---	---	1914
1915	---	1 880 ON JUN 27	---	---	1915
1916	---	1 420 ON JUN 28	---	---	1916
1917	---	894 ON JUN 7	85.8 E ON APR 27	5 800 000	1917
1918	---	617 ON JUN 17	41.1 ON APR 2	4 240 000	1918
1919	---	599 ON AUG 8	35.4 ON SEP 19	2 470 000	1919
1920	---	685E ON JUL 19	19.2 ON OCT 25	2 150 000	1920
1921	422 ON JUN 9	416 ON JUN 8	33.1 ON OCT 27	3 240 000	1921
1922	436 AT 08:00 MST ON JUN 8	428 ON JUN 7	12.3 ON SEP 28	2 250 000	1922
1923	2 180 ON JUN 2	2 100 ON JUN 2	24.8 ON SEP 25	2 150 000	1923
1924	436 AT 04:00 MST ON JUN 30	411 ON JUN 30	0.805E ON MAY 5 *	4 330 000	1924
			29.7 ON MAY 9	2 820 000	
1925	538 AT 18:00 MST ON JUN 12	507 ON MAY 24	51.5 ON MAY 6	3 170 000	1925
1926	521 AT 05:00 MST ON SEP 12	510 ON SEP 12	2.83 E ON JUN 5	2 470 000	1926
1927	818 ON JUN 12	784 ON JUN 12	48.7 ON APR 13	4 480 000	1927
1928	1 040 AT 17:00 MST ON JUN 18	883 ON JUN 19	41.9 ON APR 20	4 200 000	1928
1929	2 640 AT 17:30 MST ON JUN 4 *	2 230 ON JUN 4 *	3.20 ON OCT 16	2 400 000	1929
1930	442 AT 22:00 MST ON JUN 10	413 ON JUN 10	3.40 ON AUG 28	2 180 000	1930
1931	272 AT 22:00 MST ON JUN 21	254 ON JUN 19	4.42 ON APR 12	1 330 000	1931
1932	2 310 AT 09:00 MST ON JUN 4	2 120 ON JUN 4	---	---	1932
1933	610 AT 22:30 MST ON MAY 18	580 ON JUN 19	55.2 ON APR 12	---	1933
1934	555 AT 23:00 MST ON JUN 18	524 ON JUN 19	---	---	1934
1935	974 AT 07:00 MST ON JUN 19	711 ON JUN 19	---	---	1935
1936	---	490 ON JUN 6	---	---	1936
1937	1 130R AT 01:00 MST ON JUN 1	1 080 ON JUN 1	---	---	1937
1938	708 AT 00:59 MST ON OCT 22	337 ON JUN 10	---	---	1938
1939	---	994 ON JUN 30	---	---	1939
1970	803 AT 01:10 MST ON JUN 15	685 ON JUN 15	---	---	1970
1971	750 AT 05:00 MST ON JUN 8	691 ON JUN 8	---	---	1971
1972	683 AT 10:40 MST ON JUN 11	504 ON JUN 3	---	---	1972
1973	377 AT 05:18 MST ON JUN 27	380 ON JUN 27	---	---	1973
1974	643 AT 05:10 MDT ON JUN 18	544 ON JUN 25	---	---	1974
1975	809 AT 09:00 MST ON JUN 21	438 ON JUN 21	---	---	1975
1976	---	3888 ON AUG 7	---	---	1976
1977	507 AT 08:50 MST ON OCT 17	108 ON JUN 11	2.48 ON MAY 6	---	1977
1978	---	380 ON JUN 7	---	---	1978
1979	228 AT 20:45 MST ON MAY 28	218 ON MAY 28	---	---	1979
1980	---	418 ON MAY 28	---	---	1980
1981	837 AT 08:00 MST ON MAY 27	726 ON MAY 27	---	---	1981
1982	363 AT 08:25 MST ON JUL 6	288 ON JUL 6	---	---	1982
1983	303 AT 14:27 MST ON OCT 31	184 ON JUN 1	---	---	1983
1984	303 AT 14:27 MST ON OCT 31	182 ON JUN 18	4.31 ON OCT 22	514 000	1984
1985	307 AT 09:09 MST ON SEP 14	300 ON SEP 14	1.48 ON AUG 27	748 000	1985
1986	451 AT 07:08 MST ON JUN 1	411 ON JUN 3	---	---	1986
1987	233 AT 10:28 MST ON MAY 14	228 ON MAY 20	1.73 ON APR 28	484 000	1987
1988	188 AT 07:08 MST ON JUN 13	175 ON JUN 13	2.88 ON AUG 1	581 000	1988
				3 650 000	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1987

CACHE PERCOTTE CREEK (NORTH FORK) NEAR HINTON - STATION NO. 07AD007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.008	0.014	0.033	---	---	---	1972
1973	---	---	---	---	---	---	0.010	0.007	0.004	0.008	---	---	---	1973
1974	---	---	---	---	---	0.014	0.011	0.005	0.008	0.003	---	---	---	1974
1975	---	---	---	---	0.013	0.014	0.004	0.001	0.001	0.001	---	---	0.008	1975
1976	---	---	---	---	0.005	0.003	0.003	0.018	0.004	0.003	---	---	0.008	1976
1977	---	---	---	---	0.078	0.038	0.048	0.053	0.048	0.039	---	---	0.048	1977
MEAN	---	---	---	---	0.031	0.017	0.015	0.016	0.013	0.011	---	---	0.020	MEAN

LOCATION - LAT 53 33 26 N, LONG 117 28 11 W
DRAINAGE AREA, 2.72 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - HINTON FORESTRY SCHOOL

CACHE PERCOTTE CREEK (NORTH FORK) NEAR HINTON - STATION NO. 07AD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	0.082 AT 00:00 MST ON OCT 1	0.071 ON OCT 1	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	0.143 AT 18:00 MST ON JUN 26	0.088 ON JUN 26	0.001 ON JUL 25 *	89.5	1975
1976	0.143 AT 18:10 MST ON AUG 18	0.108 ON AUG 18	0.001 ON MAY 27	88.8	1976
1977	0.308 AT 17:00 MST ON MAY 28 *	0.221 ON MAY 28 *	0.007 ON MAY 1	788	1977
				318	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CACHE PERCOTTE CREEK NEAR HINTON - STATION NO. 07AD003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	---	0.183	0.031	0.070	0.019	---	---	---	1965
1966	---	---	---	---	---	0.074	0.044	0.080	0.033	0.022	---	---	---	1966
1967	---	---	---	---	0.058	0.118	0.020	0.008	0.002	0.002	---	---	0.035	1967
1968	---	---	---	---	0.024	0.011	0.010	0.010	0.005	0.004	---	---	0.011	1968
1969	---	---	---	---	0.028	---	---	---	0.018	---	---	---	---	1969
1970	---	---	0	0.002	0.034	0.027	0.022	0.004	0.001	0.001	---	---	0.015	1970
1971	---	---	---	---	0.027	0.128	0.185	0.010	0.009	0.007	---	---	0.081	1971
1972	---	---	0.001	0.014	0.083	0.085	0.039	0.025	0.029	0.083	---	---	0.054	1972
1973	---	---	---	---	0.110	0.080	0.019	0.014	0.008	0.015	---	---	0.038	1973
1975	---	---	---	---	---	0.032	0.031	0.010	0.001	0.001	---	---	0.013	1975
1976	---	---	---	---	---	0.024	0.009	0.007	0.038	0.006	0.004	---	0.015	1976
1977	---	---	---	---	---	0.137	0.048	0.071	0.084	0.109	0.047	---	0.082	1977
MEAN	---	---	0.001	0.008	0.058	0.059	0.058	0.028	0.024	0.017	---	---	0.036	MEAN

LOCATION - LAT 53 24 05 N, LONG 117 36 27 W DRAINAGE AREA, 7.15 km² NATURAL FLOW DATA CONTRIBUTED BY - HINTON FORESTRY SCHOOL

CACHE PERCOTTE CREEK NEAR HINTON - STATION NO. 07AD003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	0.897 AT 14:00 MST ON JUL 8 *	0.654 ON JUL 8	---	---	1965
1966	0.473 AT 14:00 MST ON AUG 5	0.300 ON AUG 28	---	---	1966
1967	0.381 AT 22:00 MST ON JUN 17	0.284 ON JUN 18	0.001E ON SEP 17	550	1967
1968	0.071 AT 08:30 MST ON MAY 10	0.045 ON MAY 9	0.003 ON JUN 21	159	1968
1969	0.948 AT 17:00 MST ON AUG 5	0.702 ON AUG 5 *	---	---	1969
1970	0.232 AT 23:00 MST ON JUN 15	0.150 ON JUN 15	0 E ON OCT 21 *	235	1970
1971	0.618 AT 20:30 MST ON JUL 11	0.446 ON JUL 11	0.004E ON SEP 16	869	1971
1972	0.518 AT 01:30 MST ON JUN 25	0.439 ON JUN 25	0.012 ON JUN 10	858	1972
1973	0.422 AT 17:35 MST ON JUN 24	0.278 ON MAY 27	0.006 ON AUG 15	603	1973
1975	0.337 AT 15:30 MST ON JUN 28	0.238 ON JUN 28	0.001 ON AUG 1	203	1975
1976	0.357 AT 14:50 MST ON AUG 15	0.269 ON AUG 15	0.001 ON JUN 10	231	1976
1977	0.725 AT 17:30 MST ON MAY 29	0.442 ON MAY 29	0.002 ON JUN 30	1 310	1977
				570	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHRISTMAS CREEK NEAR BLUE RIDGE - STATION NO. 07AH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	1.00	0.548	0.585	---	---	---	1972
1973	---	---	0.456	1.40	2.48	3.10	1.32	1.15	0.389	0.817	---	---	1.39	1973
1974	---	---	0.051	4.84	11.8	1.77	4.85	0.451	0.390	0.357	---	---	3.08	1974
1975	---	---	0.082	1.09	2.25	2.81	2.43	1.85	1.84	0.417	---	---	1.84	1975
1976	---	---	0.098	2.62	0.974	1.25	1.88	3.58	2.28	0.559	---	---	1.85	1976
1977	---	---	0.188	2.16	7.84	4.25	3.89	1.18	1.84	1.13	---	---	2.80	1977
1978	---	---	0.209	1.46	2.57	2.39	3.18	0.822	1.99	0.898	---	---	1.72	1978
1979	---	---	0.263	0.976	5.71	7.18	8.59	1.40	0.265	0.380	---	---	3.22	1979
1980	---	---	0.111	2.81	1.35	2.05	1.82	0.730	0.780	0.585	---	---	1.24	1980
1981	---	---	0.265	1.44	1.63	1.76	0.444	0.157	0.074	0.184	---	---	0.737	1981
1982	---	---	0.014	0.850	2.48	0.115	1.89	1.82	0.717	0.285	---	---	1.00	1982
1983	---	---	0.022	0.593	0.330	1.82	6.13	1.07	0.188	0.291	---	---	1.32	1983
1984	---	---	0.137	0.848	1.62	5.22	0.848	0.125	0.617	0.382	---	---	1.18	1984
1985	---	---	0.105	1.15	1.34	2.86	0.761	0.273	1.27	0.909	---	---	1.07	1985
1986	---	---	0.172	3.59	4.02	1.67	3.73	0.588	0.543	1.42	---	---	1.95	1986
1987	---	---	0.121	0.826	1.22	0.821	0.255	1.55	0.678	0.311	---	---	0.722	1987
1988	---	---	0.226	0.841	0.979	1.79	4.44	0.891	0.882	0.321	---	---	1.18	1988
MEAN	---	---	0.157	1.91	3.08	2.58	2.88	1.06	0.882	0.583	---	---	1.81	MEAN

LOCATION - LAT 54 13 40 N, LONG 115 19 58 W DRAINAGE AREA, 424 km² NATURAL FLOW

CHRISTMAS CREEK NEAR BLUE RIDGE - STATION NO. 07AH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	8.80 AT 00:30 MST ON JUN 27	8.05 ON JUN 27	0.2248 ON MAR 6	29 400	1973
1974	31.1 AT 00:20 MST ON MAY 14	27.1 ON MAY 13	0.0578 ON MAR 1	65 200	1974
1975	24.7 AT 20:00 MST ON JUN 29	23.7 ON JUN 29	0.0788 ON MAR 14	32 700	1975
1976	13.8 AT 20:30 MST ON AUG 28	13.3 ON AUG 28	0.0858 ON MAR 1	34 800	1976
1977	27.5 AT 15:00 MST ON MAY 30	26.8 ON MAY 30	0.1028 ON APR 2	59 400	1977
1978	17.8 AT 19:15 MST ON JUL 12	15.8 ON JUL 13	0.1308 ON MAR 15	38 300	1978
1979	38.1 AT 23:55 MST ON JUL 3 *	34.4 ON JUN 15 *	0.0748 ON MAR 1	86 300	1979
1980	8.22 AT 05:10 MST ON APR 18	5.878 ON APR 18	0.0688 ON MAR 1	26 300	1980
1981	3.88 AT 23:10 MST ON APR 25	3.52 ON JUN 2	0.005 ON SEP 19 *	15 600	1981
1982	5.29 AT 23:10 MST ON MAY 4	4.72 ON MAY 21	0.0108 ON MAR 1	21 300	1982
1983	17.1 AT 12:00 MST ON JUL 10	15.4 ON JUL 10	0.0098 ON MAR 9	28 000	1983
1984	35.4 AT 23:59 MST ON JUN 8	30.9 ON JUN 9	0.083 ON AUG 3	24 900	1984
1985	27.5 AT 04:55 MST ON JUN 28	22.4 ON JUN 28	0.0308 ON MAR 1	22 700	1985
1986	17.1 AT 05:55 MST ON JUL 19	16.2 ON JUL 19	0.0158 ON MAR 11	41 600	1986
1987	4.64 AT 14:21 MST ON AUG 2	4.11 ON AUG 3	0.0858 ON MAR 1	15 300	1987
1988	26.3 AT 00:51 MST ON JUL 8	21.8 ON JUL 8	0.0388 ON MAR 3	24 500	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		34 200	MEAN

COLUMBINE CREEK NEAR GLENDON - STATION NO. 05AA901

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	---	---	0.323	0.003	0.003	0.007	0.010	---	---	---	---	1979
1980	---	---	---	1.32	0.106	0.240	0.103	0.058	0.050	---	---	---	---	1980
1981	---	---	---	0.575	0.027	0.104	0.012	0.001	0.006	---	---	---	---	1981
1982	---	---	---	0.728	0.110	0.007	0.024	0.005	0.004	0.002	---	---	---	1982
MEAN	---	---	---	0.874	0.142	0.089	0.038	0.018	0.018	0.002	---	---	---	MEAN

LOCATION - LAT 54 21 15 N, LONG 111 08 40 W
DRAINAGE AREA, 241 km^2, NATURAL FLOW
DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

COLUMBINE CREEK NEAR GLENDON - STATION NO. 05AA901

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	9.80 AT 21:15 MST ON APR 24 *	9.23 ON APR 24 *	0 ON JUN 1 *	---	1979
1980	---	5.138 ON APR 12	08 ON APR 1	---	1980
1981	4.23 ON MAR 30	3.818 ON MAR 30	0 ON JUN 13	---	1981
1982	4.46 AT 07:59 MST ON APR 25	4.078 ON APR 25	08 ON APR 1	---	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

COLUMBINE CREEK NEAR THE MOUTH - STATION NO. 05AA004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	0.008	0.007	0.002	---	---	---	1982
1983	---	---	0.001	0.048	0.008	0.003	0.008	0.002	0.005	0.013	---	---	0.011	1983
1984	---	---	0.183	0.178	0.054	0.081	0.007	0.002	0.011	0.001	---	---	0.059	1984
1985	---	---	0.002	1.30	0.075	0.018	0.008	0.003	0.002	0.004	---	---	0.173	1985
1986	---	---	0.277	0.278	0.085	0.004	0.004	0.010	0.003	0.014	---	---	0.082	1986
1987	---	---	---	0.788	0.012	0	0	0.002	0.001	0.001	---	---	---	1987
1988	---	---	---	0.001	0.018	0.017	0.003	0.008	0	0.001	---	---	---	1988
MEAN	---	---	0.111	0.432	0.039	0.017	0.005	0.005	0.004	0.005	---	---	0.081	MEAN

LOCATION - LAT 54 21 21 N, LONG 111 08 22 W
DRAINAGE AREA, 241 km^2, NATURAL FLOW
DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

COLUMBINE CREEK NEAR THE MOUTH - STATION NO. 05AA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	---	---	1982
1983	---	0.1288 ON APR 10	0.0018 ON MAR 1	228	1983
1984	---	1.70 B ON MAR 29	0.0018 ON MAR 1	1 250	1984
1985	8.00 B AT 04:25 MST ON APR 3 *	8.31 B ON APR 3 *	0.0018 ON MAR 1	3 870	1985
1986	1.59 B AT 08:50 MST ON MAR 31	1.51 B ON APR 1	0 B ON MAR 1 *	1 730	1986
1987	3.04 B AT 08:38 MST ON APR 8	2.83 B ON APR 8	0 B ON APR 1	---	1987
1988	0.088 AT 09:00 MST ON MAY 17	0.054 ON MAY 17	0 B ON APR 1	---	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 720	MEAN

CONNOR CREEK NEAR SANGUDO - STATION NO. 07BB003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.074	0.003	0.003	---	---	---	1972
1973	---	---	0.107	0.808	0.338	0.746	0.088	0.024	0.033	0.091	---	---	0.251	1973
1980	---	---	0.015	2.02	0.185	0.534	0.294	0.344	0.031	0.003	---	---	0.418	1980
1981	---	---	1.08	0.705	0.187	0.078	0.007	0.021	0.001	0.001	---	---	0.260	1981
1982	---	---	0	2.86	0.448	0.170	0.372	0.030	0	0	---	---	0.491	1982
1983	---	---	0	0.587	0.023	0.084	0.643	0.122	0.074	0.001	---	---	0.189	1983
1984	---	---	0.122	0.048	0.010	0.274	0.004	0	0	0	---	---	0.057	1984
1985	---	---	0.880	1.15	0.072	0.700	0.071	0.008	0.005	0.012	---	---	0.388	1985
1986	---	---	1.70	1.53	0.316	0.054	0.044	0.042	0	0	---	---	0.460	1986
1987	---	---	---	0.830	0.135	0.050	0.015	0.006	0.002	0.001	---	---	---	1987
1988	---	---	0.017	0.015	0.011	0.016	0.580	0.007	0	0	---	---	0.082	1988
MEAN	---	---	0.436	1.05	0.188	0.270	0.212	0.062	0.014	0.010	---	---	0.285	MEAN

LOCATION - LAT 54 01 23 N, LONG 114 56 38 W. DRAINAGE AREA, 165 km². NATURAL FLOW

CONNOR CREEK NEAR SANGUDO - STATION NO. 07BB003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	0 ON SEP 15 *	---	1972
1973	---	2.40 ON JUN 27	0B ON MAR 1	5 310	1973
1980	5.52 AT 06:00 MST ON APR 11	5.43 ON APR 11	0B ON MAR 1	8 870	1980
1981	4.52 AT 15:00 MST ON MAR 16	4.288 ON MAR 16	0 ON JUL 12	5 500	1981
1982	14.7 AT 08:25 MST ON APR 24 *	14.5 ON APR 24 *	0B ON MAR 1	10 400	1982
1983	2.38 AT 04:00 MST ON APR 8	2.298 ON APR 8	0B ON MAR 1	3 890	1983
1984	2.51 AT 00:50 MST ON JUN 10	2.38 ON JUN 10	0B ON MAR 1	1 200	1984
1985	5.73 AT 23:10 MST ON JUN 25	5.13 ON JUN 26	0B ON MAR 1	7 800	1985
1986	4.818 AT 05:20 MST ON MAR 29	4.668 ON MAR 29	0 ON AUG 21	9 730	1986
1987	4.338 AT 18:29 MST ON APR 5	4.188 ON APR 5	0B ON MAR 31	---	1987
1988	5.53 AT 04:33 MST ON JUL 8	5.26 ON JUL 8	0B ON MAR 1	1 730	1988
				6 040	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	---	---	---	---	---	---	---	0.097	0.062	---	---	1966
1967	---	---	---	---	---	0.544	0.104	0.045	0.022	0.024	0.021	---	---	1967
1968	---	---	---	---	0.255	0.188	0.302	0.239	0.088	0.052	0.028	---	---	1968
1969	---	---	---	---	0.266	0.269	0.523	---	0.072	0.059	---	---	---	1969
1970	---	---	---	---	0.282	0.249	0.050	0.033	0.025	0.012	---	---	---	1970
1971	---	---	---	0.053	0.300	0.813	0.327	0.073	0.071	0.118	---	---	0.222	1971
1972	---	---	---	---	0.467	0.532	0.221	0.073	0.180	0.172	---	---	---	1972
1973	---	---	---	0.008	0.537	0.267	0.135	0.071	0.081	0.084	---	---	0.188	1973
1974	---	---	---	0.144	0.839	0.238	0.148	0.088	0.070	0.053	---	---	0.195	1974
1975	---	---	---	0.018	0.330	0.227	0.118	0.035	0.038	0.027	---	---	0.113	1975
1976	---	---	---	0.098	0.324	0.236	0.094	0.238	0.102	0.084	---	---	0.164	1976
1977	---	---	---	0.054	0.872	0.384	0.315	0.230	0.307	0.140	---	---	0.345	1977
1978	---	---	---	0.164	0.621	0.429	0.288	0.155	0.304	0.089	---	---	0.278	1978
1979	---	---	---	0.057	0.348	0.298	0.118	0.052	0.036	0.052	---	---	0.138	1979
1980	---	---	---	0.283	0.335	1.37	0.434	0.152	0.215	0.108	---	---	0.410	1980
1981	---	---	---	0.062	0.287	0.245	0.305	0.152	0.060	0.044	---	---	0.188	1981
1982	---	---	---	0.101	0.328	0.341	0.775	0.242	0.208	0.285	---	---	0.324	1982
1983	---	---	---	0.147	0.287	0.225	0.118	0.030	0.021	0.022	---	---	0.123	1983
1984	---	---	---	0.084	0.184	0.330	0.081	0.025	0.148	0.224	---	---	0.152	1984
1985	---	---	---	0.099	0.158	0.328	0.128	0.374	0.412	0.149	---	---	0.235	1985
1986	---	---	---	0.118	0.381	0.171	0.807	0.127	0.166	0.383	---	---	0.310	1986
1987	---	---	---	0.025	0.109	0.065	0.093	0.561	0.088	0.047	---	---	0.141	1987
1988	---	---	---	0.071	0.107	0.237	0.045	0.071	0.089	0.081	---	---	0.094	1988
MEAN	---	---	---	0.093	0.355	0.355	0.260	0.144	0.125	0.102	0.037	---	0.211	MEAN

LOCATION - LAT 53 08 20 N, LONG 117 14 38 W. DRAINAGE AREA, 14.0 km². NATURAL FLOW

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	---	---	---	1966
1967	2.01 AT 10:00 MST ON JUN 9	1.71 ON JUN 9	---	---	1967
1968	1.38 AT 02:50 MST ON JUL 22	1.15 ON JUL 22	---	---	1968
1969	11.9 AT 18:00 MST ON AUG 5 *	---	---	---	1969
1970	3.09 AT 06:50 MST ON JUN 15	1.52 ON JUN 15	0.0038 ON APR 1	4 110	1970
1971	2.39 AT 20:00 MST ON JUN 9	2.20 ON JUN 9	---	---	1971
1972	2.60 AT 20:00 MST ON JUN 25	1.89 ON JUN 25	0.0018 ON APR 1 *	3 120	1972
1973	1.21 AT 19:30 MST ON MAY 16	0.909 ON MAY 16	0.0068 ON APR 1	3 810	1973
1974	1.268 AT 18:00 MST ON MAY 6	1.08 B ON MAY 6			1974
1975	---	0.7318 ON MAY 5 *	0.0068 ON APR 1	2 080	1975
1976	---	0.8728 ON MAY 1	0.0088 ON APR 1	3 030	1976
1977	3.58 AT 15:50 MST ON MAY 25	2.44 ON MAY 22	0.0188 ON APR 21	8 310	1977
1978	---	1.74 B ON MAY 18	0.0108 ON APR 1	5 140	1978
1979	1.33 AT 07:00 MST ON JUN 20	0.820 ON JUN 20	0.0138 ON APR 1	2 540	1979
1980	11.3 AT 13:50 MST ON JUN 4	8.76 ON JUN 4 *	0.0308 ON APR 1	? 590	1980
1981	1.16 AT 09:05 MST ON JUL 30	0.895 ON JUL 30	0.0108 ON APR 1	3 120	1981
1982	5.47 AT 15:30 MST ON JUL 4	3.87 ON JUL 5	0.0038 ON APR 1	8 000	1982
1983	1.00 AT 09:05 MST ON JUN 24	0.782 ON JUN 24	0.0108 ON APR 10	2 270	1983
1984	1.33 AT 18:40 MST ON JUN 8	1.10 ON JUN 8	0.017 ON AUG 26	2 800	1984
1985	1.96 AT 23:50 MST ON SEP 12	1.44 A ON AUG 15	0.0088 ON APR 19	4 340	1985
1986	7.58 AT 22:07 MST ON JUL 17	4.00 ON JUL 17	0.0278 ON APR 3	5 730	1986
1987	8.88 AT 18:04 MST ON AUG 1	2.70 ON AUG 1	0.0088 ON APR 19	2 800	1987
1988	1.72 AT 02:18 MST ON JUN 8	1.02 ON JUN 8	0.0088 ON APR 1	1 740	1988
				3 890	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.228	6.76	36.5	22.8	6.33	8.82	3.26	3.05	---	---	9.80	1973
1974	---	---	0.785	25.5	29.8	3.68	15.5	2.35	2.57	2.40	---	---	10.3	1974
1975	---	---	0.247	3.77	9.86	22.0	14.8	9.44	7.32	1.75	---	---	8.60	1975
1976	---	---	0.313	14.8	10.2	19.1	12.4	27.8	8.18	2.11	---	---	11.6	1976
1977	---	---	0.485	15.1	23.1	12.5	25.3	2.74	3.80	2.09	---	---	10.7	1977
1978	---	---	0.255	9.08	13.6	13.0	2.78	1.89	14.4	2.23	---	---	7.06	1978
1979	---	---	0.389	4.73	30.3	28.1	28.7	1.10	0.872	0.659	---	---	11.9	1979
1980	---	---	0.039	5.35	5.56	5.19	2.85	4.81	8.58	1.82	---	---	4.25	1980
1981	---	---	0.358	8.44	9.37	10.6	4.26	0.568	0.442	0.617	---	---	4.43	1981
1982	---	---	0.128	1.17	18.1	1.55	8.86	13.8	1.05	0.888	---	---	5.98	1982
1983	---	---	0.045	1.31	3.12	27.3	38.8	4.45	2.78	1.63	---	---	9.51	1983
1984	---	---	0.384	3.35	13.5	15.3	8.21	2.04	4.78	1.77	---	---	5.90	1984
1985	---	---	0.383	14.1	22.7	8.30	1.76	1.01	10.7	7.82	---	---	8.04	1985
1986	---	---	0.420	7.84	18.8	5.11	29.7	4.23	2.21	7.55	---	---	9.63	1986
MEAN	---	---	0.284	8.71	18.8	13.6	14.0	6.05	5.07	2.57	---	---	8.41	MEAN

LOCATION - LAT. 53 20 48 N, LONG 118 47 35 W DRAINAGE AREA, 840 km^2, NATURAL FLOW

REMARKS - HIGH WATER MARK OBTAINED FOR JUL 7 1988 FLOOD. PEAK GAUGE HEIGHT WAS 8.385 m (GSC ELEV 1591.880)

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	128 AT 08:30 MST ON MAY 21	111 ON JUN 17	0.1838 ON MAR 11	203 000	1973
1974	180 AT 15:00 MST ON JUL 13	138 ON JUL 13	0.2658 ON MAR 15	211 000	1974
1975	210 AT 15:00 MST ON JUN 28	183 ON JUN 28	0.2278 ON APR 8	182 000	1975
1976	188 AT 12:00 MST ON AUG 18	184 ON AUG 18	0.2188 ON MAR 3	250 000	1976
1977	105 AT 23:00 MST ON MAY 29	88.9 ON JUL 12	0.3548 ON MAR 21	226 000	1977
1978	104 AT 06:00 MST ON SEP 18	88.3 ON SEP 16	0.1538 ON MAR 5	149 000	1978
1979	220 AT 18:00 MST ON JUN 14	185 ON JUN 14	0.193 ON AUG 18	251 000	1979
1980	35.6 AT 15:00 MST ON MAY 28	31.4 ON MAY 28	0.0209 ON MAR 3 *	88 800	1980
1981	47.6 AT 05:30 MST ON APR 25	40.0 ON APR 25	0.2008 ON MAR 10	83 800	1981
1982	125 AT 13:40 MST ON AUG 3	111 ON AUG 4	0.0638 ON MAR 1	127 000	1982
1983	312 AT 13:00 MST ON JUN 25 *	262 ON JUN 25 *	0.0258 ON MAR 6	201 000	1983
1984	98.6 AT 22:30 MST ON JUN 7	87.8 ON JUN 8	0.1418 ON MAR 15	125 000	1984
1985	75.5 AT 05:30 MST ON MAY 4	67.1 ON MAY 4	0.1408 ON MAR 1	170 000	1985
1986	273 AT 22:00 MST ON JUL 16	191 ON JUL 16	0.2738 ON MAR 18	304 000	1986
				176 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EAST CABIN CREEK NEAR MUSKEG - STATION NO. 07AC003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.100	---	---	---	---	---	1972
1973	---	---	---	---	0.193	0.171	0.126	0.083	0.054	---	---	---	---	1973
1974	---	---	---	---	0.174	0.170	0.171	0.087	---	---	---	---	---	1974
MEAN	---	---	---	---	0.184	0.171	0.149	0.077	0.054	---	---	---	---	MEAN

LOCATION - LAT 53 46 00 N LONG 118 22 00 W
DRAINAGE AREA, 12.4 km²
NATURAL FLOW

EAST CABIN CREEK NEAR MUSKEG - STATION NO. 07AC003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	0.835B AT 18:00 MST ON MAY 13 *	0.425B ON MAY 13 *	0B ON MAY 1 *	---	1973
1974	0.328 AT 22:20 MST ON JUL 15	0.297 ON MAY 28	---	---	1974
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

ELBOW RIVER ABOVE ELBOW FALLS - STATION NO. 05BJ005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	2.37	2.03	12.9	31.6	12.7	8.42	4.61	3.61	---	---	9.49	1967
1968	---	---	1.95	2.07	6.28	17.8	10.6	7.38	5.66	5.49	3.70	2.89	7.20	1968
1969	2.70	2.17	1.87	2.84	11.6	21.0	20.1	8.88	4.84	3.63	3.31	2.69	9.15	1969
1970	2.10	2.13	1.80	1.85	8.40	22.8	9.07	4.65	4.01	3.48	2.59	2.19	6.88	1970
1971	2.10	1.88	1.87	2.28	10.5	20.1	8.35	5.19	3.77	3.54	2.84	2.21	6.90	1971
1972	2.18	1.78	2.05	2.22	10.9	22.8	12.4	8.51	6.24	4.46	3.43	2.69	8.67	1972
1973	2.22	2.15	2.04	2.18	9.86	19.2	9.90	5.49	4.47	3.99	2.92	2.48	7.32	1973
1974	2.10	1.68	1.78	2.45	8.95	28.7	14.8	8.35	7.37	4.38	3.48	2.61	9.78	1974
1975	1.59	2.31	1.81	2.03	6.04	18.3	13.9	6.46	4.42	3.68	2.74	2.40	7.05	1975
1976	1.82	1.73	1.68	2.08	8.68	9.14	8.42	10.7	6.17	4.26	3.13	2.68	6.39	1976
1977	2.15	1.97	1.78	1.99	4.87	7.22	4.05	6.07	4.33	3.41	---	---	4.21	1977
1978	---	---	1.45	1.98	7.23	18.3	12.1	6.51	5.58	4.63	---	---	7.20	1978
1979	---	---	1.97	2.26	7.98	10.7	6.58	4.32	3.45	2.89	---	---	4.89	1979
1980	---	---	1.48	2.22	8.71	22.2	8.83	7.18	6.00	4.87	---	---	7.81	1980
1981	---	---	1.87	2.08	18.5	23.5	17.3	9.24	5.00	3.78	---	---	10.2	1981
1982	---	---	1.72	1.98	4.19	17.3	7.82	4.38	3.75	3.86	---	---	5.61	1982
1983	---	---	1.65	2.31	8.83	11.1	8.14	4.80	3.35	2.98	---	---	5.84	1983
1984	---	---	1.57	1.83	3.21	11.4	5.81	3.89	2.95	3.25	---	---	4.20	1984
1985	---	---	1.57	1.87	8.58	9.65	5.31	7.24	10.7	5.61	---	---	8.04	1985
1986	---	---	2.08	2.15	11.8	15.9	9.22	7.14	5.86	5.48	---	---	7.84	1986
1987	---	---	2.15	2.45	8.41	7.03	9.57	8.52	4.88	3.35	---	---	5.33	1987
1988	---	---	1.83	1.94	8.09	10.9	5.36	7.88	4.76	4.68	---	---	5.41	1988
MEAN	2.12	1.98	1.82	2.13	8.66	17.2	9.95	6.87	5.18	4.10	3.13	2.54	8.95	MEAN

LOCATION - LAT 50 51 20 N LONG 114 47 37 W
DRAINAGE AREA, 437 km²
NATURAL FLOW

ELBOW RIVER ABOVE ELBOW FALLS - STATION NO. 05BJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	159 R *	105 ON MAY 31 *	1.64B ON APR 20	201 000	1967
1968	33.1 AT 00:31 MST ON JUN 3	27.3 ON JUN 10	1.85 ON APR 4	152 000	1968
1969	65.1 AT 09:20 MST ON JUN 29	57.8 ON JUN 29	1.76B ON MAR 1	194 000	1969
1970	56.9 AT 18:48 MST ON JUN 18	52.1 ON JUN 18	1.88 ON MAR 7	148 000	1970
1971	58.5 AT 05:00 MST ON JUN 6	48.0 ON JUN 8	1.80 ON MAR 8	146 000	1971
1972	43.6 AT 01:30 MST ON JUN 1	38.8 ON JUN 1	1.64B ON MAR 1	183 000	1972
1973	38.8 AT 04:30 MST ON JUN 7	31.7 ON JUN 7	1.87 ON APR 2	155 000	1973
1974	61.4 AT 01:00 MST ON JUN 17	52.7 ON JUN 17	1.70 ON MAR 11	207 000	1974
1975	46.7 AT 23:30 MST ON JUN 19	39.4 ON JUN 20	1.68B ON MAR 28	149 000	1975
1976	30.0 AT 03:00 MST ON AUG 6	24.8 ON AUG 8	1.53 ON MAR 30	135 000	1976
1977	18.2 AT 10:00 MST ON AUG 13	13.8 ON AUG 14	1.72 ON MAR 28	89 100	1977
1978	45.0 AT 22:00 MST ON JUN 5	38.7 ON JUN 8	1.22 ON MAR 23	152 000	1978
1979	31.5 AT 23:00 MST ON MAY 26	23.2 ON MAY 27	1.85B ON MAR 22	106 000	1979
1980	46.8 AT 00:30 MST ON JUN 11	38.0 ON JUN 11	1.43 ON MAR 30	159 000	1980
1981	76.6 AT 00:30 MST ON MAY 26	62.1 ON MAY 26	1.70E ON MAR 1	215 000	1981
1982	28.4 AT 23:20 MST ON JUN 13	25.0 ON JUN 15	1.60 ON MAR 20	119 000	1982
1983	31.2 AT 21:46 MST ON MAY 29	24.2 ON MAY 29	1.55 ON MAR 25	119 000	1983
1984	23.2 AT 22:05 MST ON MAY 30	18.7 ON JUN 15	1.46 ON APR 2	88 900	1984
1985	47.6 AT 22:01 MST ON SEP 12	34.9 ON SEP 13	1.18B ON MAR 5 *	128 000	1985
1986	52.2 AT 23:25 MST ON MAY 27	43.2 ON MAY 28	1.81 ON MAR 19	182 000	1986
1987	33.7 AT 03:57 MST ON JUL 22	21.7 ON JUL 22	2.02 ON MAR 27	113 000	1987
1988	38.3 AT 02:17 MST ON JUN 6	28.7 ON JUN 6	1.58B ON MAR 5	114 000	1988
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1987		147 000	MEAN

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	8.72	13.9	11.1	---	---	---	---	---	---	1935
1936	---	---	---	---	---	5.81	2.32	---	---	---	---	---	---	1936
1937	---	---	---	---	4.52	20.5	12.9	5.02	---	---	---	---	---	1937
1938	---	---	---	---	21.9	27.0	27.3	8.47	---	---	---	---	---	1938
1939	---	---	---	---	---	36.4	15.0	3.48	---	---	---	---	---	1939
1940	---	---	---	---	9.88	10.3	7.42	4.28	---	---	---	---	---	1940
1941	---	---	---	---	---	17.2	3.85	---	---	---	---	---	---	1941
1942	---	---	---	---	37.2	41.4	38.0	---	---	---	---	---	---	1942
1943	---	---	---	---	13.8	31.2	31.2	---	---	---	---	---	---	1943
1944	---	---	---	---	---	12.9	---	---	---	---	---	---	---	1944
1945	---	---	---	---	20.5	48.1	25.4	---	---	---	---	---	---	1945
1946	---	---	---	---	10.7	22.7	12.2	---	---	---	---	---	---	1946
1947	---	---	---	---	22.8	30.5	16.1	---	---	---	---	---	---	1947
1948	---	---	---	---	39.8	37.9	---	---	---	---	---	---	---	1948
1949	---	---	---	---	8.12	11.8	8.17	5.75	5.68	5.18	---	---	---	1949
1950	---	---	---	3.78	5.00	21.9	15.4	9.57	5.77	4.79	---	---	---	1950
1951	---	---	---	4.66	25.0	39.6	41.3	20.3	26.6	14.2	---	---	---	1951
1952	---	---	5.13	9.34	16.6	26.5	20.4	11.4	9.54	8.97	---	---	---	1952
1953	---	---	2.84	4.88	20.3	82.5	24.8	11.0	7.58	6.14	---	---	---	1953
1954	---	---	2.89	3.56	18.2	24.6	17.8	18.9	12.4	11.3	---	---	---	1954
1955	---	---	2.80	5.41	14.9	22.6	18.0	8.67	6.13	5.44	---	---	---	1955
1956	---	---	2.83	4.56	13.7	16.0	16.0	7.93	6.48	5.24	---	---	---	1956
1957	---	---	2.86	4.19	16.6	16.9	8.86	6.52	6.78	6.24	---	---	---	1957
1958	---	---	2.85	4.33	20.6	21.9	25.1	11.4	8.11	6.84	---	---	---	1958
1959	---	---	2.36	4.47	11.0	21.1	12.3	7.70	8.08	6.55	---	---	---	1959
1960	---	---	3.77	5.01	11.3	17.4	11.2	8.24	6.26	4.51	---	---	---	1960
1961	---	---	2.84	3.44	18.2	20.8	11.2	10.0	7.35	6.58	---	---	---	1961
1962	---	---	3.62	7.73	12.2	17.6	9.38	6.35	6.72	5.06	---	---	---	1962
1963	---	---	3.26	3.84	7.89	30.5	19.7	8.35	6.99	5.61	---	---	---	1963
1964	---	---	3.85	4.38	14.7	34.6	13.5	7.16	6.72	6.26	---	---	---	1964
1965	---	---	1.83	8.13	7.45	32.9	21.7	16.4	13.8	13.0	---	---	---	1965
1966	---	---	4.05	4.88	14.1	21.6	14.0	10.1	7.38	6.26	---	---	---	1966
1967	---	---	2.59	3.69	24.4	46.1	18.5	8.92	6.44	5.36	---	---	---	1967
1968	---	---	3.20	3.70	8.63	24.1	12.6	8.87	8.58	8.75	---	---	---	1968
1969	---	---	3.04	8.12	21.2	33.1	28.1	7.87	6.88	5.86	---	---	---	1969
1970	---	---	3.19		12.9	30.5	11.8	6.75	5.88	4.78	---	---	---	1970
1971	---	---	2.88		17.1	29.1	11.3	8.88	5.45	5.05	4.34	3.17	---	1971
1972	2.77	2.53	4.07	.06	18.2	30.9	16.7	10.4	7.75	6.21	---	---	---	1972
1973	---	---	3.35	.91	19.9	25.7	12.3	7.49	6.18	5.28	---	---	---	1973
1974	---	---	3.33	6.18	20.3	35.7	14.3	10.7	8.74	6.37	---	---	---	1974
1975	---	---	3.10	3.88	9.32	20.4	15.1	8.45	5.93	4.85	---	---	---	1975
1976	---	---	2.48	4.14	11.8	11.3	10.3	16.0	8.59	5.88	---	---	---	1976
1977	---	---	2.78	3.42	7.56	9.53	5.83	8.02	6.76	5.53	4.23	3.37	---	1977
1978	2.45	2.24	3.30	4.86	13.5	23.4	15.6	9.48	8.16	6.82	4.85	3.02	8.18	1978
1979	2.17	2.57	3.36	4.85	13.3	13.1	8.06	5.84	4.90	3.92	3.14	3.10	5.70	1979
1980	1.89	2.01	2.18	5.53	13.7	29.5	8.70	8.91	7.74	6.39	4.50	4.89	7.97	1980
1981	3.68	2.44	2.90	3.04	30.0	30.5	20.5	13.1	8.69	6.89	4.63	3.39	10.6	1981
1982	3.23	3.07	2.85	3.60	8.24	21.3	11.0	8.80	6.18	5.46	3.82	3.01	8.21	1982
1983	2.95	2.92	3.02	4.90	13.6	14.1	12.3	8.57	6.12	4.40	3.34	2.36	6.32	1983
1984	2.24	2.33	2.81	3.34	4.95	14.5	7.82	5.35	4.52	4.78	3.33	2.59	4.86	1984
1985	2.52	2.12	2.43	3.78	8.45	10.7	6.27	8.28	15.8	8.01	4.80	3.70	6.48	1985
1986	2.94	2.98	3.82	3.72	16.1	20.0	12.8	8.92	7.74	11.1	6.61	4.07	8.40	1986
1987	3.07	2.80	3.72	4.48	8.62	8.51	12.7	10.3	8.59	6.98	4.33	3.07	8.13	1987
1988	2.17	2.41	2.74	4.14	7.84	12.4	6.63	8.86	8.85	8.57	4.24	3.38	5.73	1988
MEAN	2.67	2.54	3.08	4.75	15.2	24.3	15.1	9.14	7.95	6.51	4.30	3.30	6.90	MEAN

LOCATION - LAT 50 56 53 N DRAINAGE AREA, 781 km²
LONG 114 34 10 W NATURAL FLOW

ELBOW RIVER AT BRAGG CREEK - STATION NO. 05BJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	23.6 ON JUN 17	---	---	1935
1936	---	27.5 ON JUN 1	---	---	1936
1937	---	64.6 ON JUN 13	---	---	1937
1938	---	77.0 ON JUL 2	---	---	1938
1939	---	74.6 ON JUN 22	---	---	1939
1940	---	21.3 ON MAY 28	---	---	1940
1941	---	44.5 ON JUN 2	---	---	1941
1942	---	155 ON MAY 11	---	---	1942
1943	---	44.2 ON JUL 3	---	---	1943
1944	---	22.9 ON JUN 13	---	---	1944
1945	---	107 ON MAY 28	---	---	1945
1946	---	42.5 ON MAY 29	---	---	1946
1947	---	80.6 ON MAY 10	---	---	1947
1948	---	183 E ON MAY 23	---	---	1948
1949	---	17.6 ON MAY 22	---	---	1949
1950	58.0 ON JUN 15	44.2 ON JUN 15	---	---	1950
1951	110 AT 18 00 MST ON AUG 30	83.7 ON AUG 30	---	---	1951
1952	71.4 AT 14 30 MST ON JUN 12	59.7 ON JUN 23	---	---	1952
1953	181 AT 03 00 MST ON JUN 13	118 ON JUN 13	---	---	1953
1954	43.9 AT 08 00 MST ON AUG 25	39.4 ON AUG 25	---	---	1954
1955	47.8 AT 23 00 MST ON MAY 19	37.1 ON JUN 12	---	---	1955
1956	35.4 AT 03 00 MST ON MAY 21	30.8 ON MAY 21	---	---	1956
1957	30.0 AT 13 00 MST ON JUN 8	28.9 ON JUN 8	---	---	1957
1958	40.2 AT 05 00 MST ON JUL 13	37.9 ON JUL 13	---	---	1958
1959	45.9 AT 08 30 MST ON JUN 27	39.9 ON JUN 27	---	---	1959
1960	29.4 AT 14 00 MST ON JUN 3	28.9 ON JUN 3	---	---	1960
1961	57.2 AT 10 00 MST ON MAY 27	51.0 ON MAY 27	---	---	1961
1962	28.9 AT 03 00 MST ON JUN 18	26.1 ON JUN 18	---	---	1962
1963	268 AT 23 00 MST ON JUN 29	141 R ON JUN 30	---	---	1963
1964	97.4 AT 05 00 MST ON JUN 8	89.5 ON JUN 8	---	---	1964
1965	184 AT 08 00 MST ON JUN 18	127 R ON JUN 18	---	---	1965
1966	32.3 AT 02 00 MST ON JUN 5	30.6 ON JUN 5	---	---	1966
1967	283 AT 01 30 MST ON MAY 31 *	185 ON MAY 31 *	---	---	1967
1968	80.7 AT 00 35 MST ON JUN 10	63.9 ON JUN 8	---	---	1968
1969	170 AT 10 28 MST ON JUN 29	139 R ON JUN 29	---	---	1969
1970	112 AT 07 10 MST ON JUN 14	82.0R ON JUN 14	---	---	1970
1971	116 AT 09 05 MST ON JUN 6	89.2R ON JUN 8	---	---	1971
1972	86.1 AT 04 15 MST ON JUN 1	69.8 ON JUN 1	---	---	1972
1973	67.0 AT 08 10 MST ON JUN 7	63.3R ON MAY 26	---	---	1973
1974	170 AT 10 28 MST ON JUN 29	86.0 ON JUN 17	---	---	1974
1975	83.5 AT 04 30 MST ON JUN 20	69.3 ON JUN 20	---	---	1975
1976	42.5 AT 06 00 MST ON AUG 8	38.0 ON AUG 8	---	---	1976
1977	17.1 AT 14 00 MST ON AUG 13	15.8 ON AUG 14	---	---	1977
1978	69.6 AT 02 30 MST ON JUN 8	64.5 ON JUN 8	1.708 ON MAR 4	287 000	1978
1979	38.4 AT 02 50 MST ON MAY 27	32.1 ON MAY 27	1.958 ON JAN 1	180 000	1979
1980	89.3 ON JUN 4	51.7A ON JUN 2	1.408 ON JAN 10	252 000	1980
1981	123 AT 04 30 MST ON MAY 25	98.2 ON MAY 25	1.618 ON FEB 8	334 000	1981
1982	30.7 AT 02 22 MST ON JUN 14	28.8 ON JUN 16	2.368 ON MAR 30	195 000	1982
1983	31.5 AT 01 47 MST ON APR 25	26.2 ON MAY 30	2.328 ON DEC 1	193 000	1983
1984	21.1 AT 03 09 MST ON JUN 12	19.4 ON JUN 12	1.888 ON JAN 19	184 000	1984
1985	78.7 AT 01 57 MST ON SEP 13	61.3 ON SEP 13	1.128 ON JAN 31 *	204 000	1985
1986	67.2 AT 01 49 MST ON MAY 26	48.9 ON MAY 26	2.508 ON FEB 19	285 000	1986
1987	26.5 AT 10 02 MST ON JUL 19	24.3 ON JUL 19	2.428 ON DEC 23	193 000	1987
1988	37.3 AT 05 12 MST ON JUN 8	28.9 ON JUN 8	1.798 ON JAN 31	181 000	1988
				220 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1987

ELBOW RIVER BELOW GLENMORE DAM - STATION NO. 05BJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	---	64.2	19.8	9.42	7.95	8.93	---	---	---	1908
1909	---	---	---	---	37.4	39.0	26.3	12.2	7.23	8.55	---	---	---	1909
1910	---	---	---	2.85	8.73	13.2	7.99	5.14	11.9	8.26	5.82	3.37	---	1910
1911	1.78	2.72	3.88	8.67	11.5	28.8	17.9	27.8	19.8	10.4	6.01	3.82	11.5	1911
1912	3.01	3.41	3.84	7.44	13.1	26.9	65.0	15.7	11.4	8.42	4.24	3.33	12.2	1912
1913	2.92	3.56	3.03	11.5	19.2	19.7	13.5	15.8	9.05	7.01	5.52	3.91	9.31	1913
1914	3.29	3.10	3.29	9.21	11.2	19.6	13.8	7.21	5.83	8.52	4.92	3.42	7.61	1914
1915	3.56	2.97	4.44	6.18	24.0	80.3	54.7	25.9	18.5	15.8	8.48	5.28	20.1	1915
1916	3.04	4.68	7.61	12.6	18.6	79.7	38.3	29.4	26.5	14.8	9.95	5.06	21.0	1916
1917	5.03	4.89	4.99	8.47	36.5	54.6	18.6	9.85	7.08	8.97	5.27	3.38	12.5	1917
1918	3.47	3.08	5.76	8.18	10.1	19.5	9.58	8.28	7.15	5.48	4.80	3.85	7.38	1918
1919	3.06	2.85	3.18	6.61	14.0	12.0	8.61	10.1	8.07	4.88	3.84	3.42	6.90	1919
1920	3.25	3.21	3.27	7.72	23.4	22.5	28.8	8.00	4.85	3.87	3.84	2.73	9.78	1920
1921	2.97	2.99	2.93	5.89	19.8	18.7	10.1	7.18	5.03	4.76	3.05	2.33	7.21	1921
1922	2.51	2.22	2.41	6.38	19.4	18.4	8.27	5.77	4.22	3.84	3.12	1.85	6.18	1922
1923	1.72	1.42	2.23	3.88	8.78	81.7	38.1	18.7	8.45	8.10	4.86	3.87	15.4	1923
1924	2.73	3.31	3.37	7.40	14.3	26.8	17.9	25.1	8.28	6.57	4.86	3.40	10.3	1924
1925	3.50	3.22	4.77	10.1	13.8	27.5	11.5	11.1	8.81	13.2	5.61	4.72	10.0	1925
1926	3.85	3.63	3.82	7.71	8.87	22.3	14.5	7.38	37.7	16.4	7.50	5.25	11.4	1926
1927	4.04	3.47	4.19	8.48	17.2	42.5	25.1	20.6	27.7	17.6	8.31	4.14	15.3	1927
1928	5.24	5.01	10.7	8.88	13.4	50.8	25.1	11.0	8.15	8.48	4.82	3.45	12.8	1928
1929	2.13	2.18	3.80	7.24	20.8	55.7	9.89	5.86	5.28	4.92	4.03	2.45	10.4	1929
1930	2.10	3.85	3.40	9.52	13.0	21.4	13.3	6.83	5.88	5.45	4.24	3.54	7.71	1930
1931	2.59	3.01	3.25	4.92	8.15	11.2	8.37	4.53	4.17	3.33	2.10	1.59	4.42	1931
1932	2.21	1.83	2.13	4.13	14.2	58.2	11.4	8.30	9.04	6.04	---	---	---	1932
1933	---	---	---	12.2	21.8	15.1	---	---	---	3.40	3.84	3.08	---	1933
1934	3.18	3.33	3.27	3.58	8.20	12.3	9.14	3.89	3.25	3.28	3.17	3.15	4.81	1934
1935	3.19	2.88	2.84	3.80	9.78	13.7	6.97	7.27	3.45	2.88	2.87	2.84	5.01	1935
1936	3.08	1.80	3.39	3.10	5.28	10.2	3.67	1.85	3.28	2.50	1.89	1.62	3.38	1936
1937	1.73	2.08	3.03	2.84	3.11	17.6	12.7	7.26	8.14	8.22	5.18	3.48	5.77	1937
1938	3.01	3.14	3.20	3.18	21.7	31.6	20.5	7.84	5.42	4.58	3.88	3.08	8.48	1938
1939	2.94	3.10	3.24	3.33	3.93	31.8	9.84	4.94	3.87	5.88	5.23	3.28	6.74	1939
1940	2.86	3.07	3.18	8.07	13.8	8.87	5.85	4.85	12.8	6.63	4.07	3.30	6.43	1940
1941	3.28	3.34	3.46	3.80	3.48	10.1	5.51	2.73	4.29	5.88	3.86	3.30	4.70	1941
1942	2.58	2.61	1.60	3.28	30.7	39.2	28.2	20.0	17.4	11.5	4.86	3.86	13.8	1942
1943	3.30	4.18	3.84	16.2	8.48	18.8	18.0	6.89	3.70	3.81	3.38	3.53	7.85	1943
1944	3.64	1.88	3.33	3.70	3.15	12.0	6.88	8.51	5.32	3.83	3.54	3.40	5.01	1944
1945	1.83	2.15	2.43	3.88	18.7	41.1	20.9	9.52	8.83	9.88	8.09	4.08	10.6	1945
1946	3.55	3.37	3.98	5.48	10.7	22.1	12.3	6.15	15.1	6.82	4.81	3.88	8.21	1946
1947	3.77	3.88	4.78	8.73	27.1	36.8	14.1	10.1	11.2	8.87	6.77	4.83	11.0	1947
1948	3.88	3.76	3.85	12.7	43.6	34.8	17.8	15.7	5.84	4.67	3.88	3.05	12.8	1948
1949	2.35	3.27	2.80	4.33	8.17	8.72	5.48	3.82	3.02	3.70	3.70	2.14	4.28	1949
1950	1.30	2.20	2.05	3.57	8.28	19.1	14.9	9.58	4.77	3.92	2.80	2.45	5.33	1950
1951	2.12	1.10	2.11	4.08	26.5	44.2	68.0	28.1	35.8	17.1	10.8	4.81	17.8	1951
1952	2.75	4.14	4.15	23.8	18.7	21.5	24.8	15.6	10.4	6.80	5.80	3.75	12.8	1952
1953	2.83	3.83	3.88	7.47	24.6	83.5	24.5	9.88	6.17	4.98	3.88	3.80	13.2	1953
1954	3.02	3.71	3.84	5.25	24.7	27.8	19.0	17.7	13.2	11.2	4.84	5.61	11.4	1954
1955	3.80	3.83	3.61	7.89	24.9	23.0	20.7	8.19	2.80	3.87	3.12	3.31	9.13	1955
1956	3.69	3.38	2.78	4.20	12.5	18.3	17.6	7.05	5.88	3.71	3.72	2.21	6.93	1956
1957	1.38	2.80	3.02	3.57	17.2	17.6	8.01	4.38	4.40	4.08	4.51	4.01	6.32	1957
1958	2.87	2.78	2.58	11.5	20.8	21.2	25.4	11.2	8.48	4.50	4.28	3.88	10.1	1958
1959	1.88	2.20	3.09	4.16	9.36	22.8	11.0	5.26	8.03	4.85	4.88	3.95	8.58	1959
1960	1.48	2.28	4.08	5.18	10.9	18.8	8.47	5.70	3.10	2.88	2.44	1.75	5.43	1960
1961	1.88	1.88	2.82	3.04	18.5	14.8	8.08	5.18	5.26	8.52	5.55	3.11	6.78	1961
1962	2.08	2.38	2.80	7.88	8.83	18.1	8.78	5.44	7.48	2.48	1.78	1.04	5.48	1962
1963	0.511	0.888	0.324	1.08	4.48	25.2	24.4	5.85	3.83	3.17	2.82	1.83	8.20	1963
1964	1.84	1.70	1.83	3.38	18.7	32.7	9.72	4.28	2.41	8.02	3.03	1.19	8.88	1964
1965	2.54	1.88	2.28	8.58	8.31	31.5	25.8	15.8	15.8	12.4	5.55	4.71	11.2	1965
1966	3.40	3.08	3.28	4.57	14.5	18.7	10.5	5.80	4.82	2.81	2.91	2.87	6.38	1966
1967	0.858	1.61	1.07	5.38	21.3	45.3	10.2	3.88	1.27	1.88	2.78	1.04	8.00	1967
1968	1.40	1.28	2.34	1.08	7.28	20.4	8.88	8.43	8.45	8.48	3.02	1.88	5.88	1968
1969	1.45	1.72	0.717	11.8	21.4	32.7	28.9	4.50	1.83	2.38	2.33	2.28	9.42	1969
1970	0.940	1.41	0.883	3.55	12.7	28.1	8.12	1.57	0.889	2.14	1.48	0.854	4.88	1970
1971	1.11	0.838	0.483	7.88	12.2	25.3	3.88	1.21	0.772	1.03	2.43	1.10	4.80	1971
1972	0.885	0.695	3.80	3.38	12.1	24.4	11.8	8.12	4.42	2.88	2.08	0.744	8.02	1972
1973	1.01	0.850	1.11	8.25	13.7	20.7	5.81	1.88	4.15	2.30	0.935	0.881	4.88	1973
1974	0.841	0.768	0.733	2.08	22.8	30.8	7.10	8.13	4.88	2.88	1.34	0.905	8.78	1974
1975	0.888	0.425	0.425	0.882	5.88	17.3	7.81	2.77	0.875	1.05	1.41	0.705	3.34	1975
1976	0.838	0.848	0.510	0.510	8.87	8.43	4.78	13.3	5.47	2.19	1.31	0.888	3.79	1976
1977	0.838	0.425	0.482	0.957	2.87	4.28	2.38	2.85	4.17	2.74	1.37	1.13	1.88	1977
1978	0.887	0.887	0.883	2.38	12.8	21.0	10.3	8.84	4.82	3.34	1.88	1.85	5.88	1978
1979	1.11	1.18	1.31	2.38	13.8	8.27	2.78	1.67	1.88	2.12	1.53	1.09	3.38	1979
1980	0.943	0.833	1.03	1.88	10.1	24.8	4.13	4.52	4.85	3.48	2.18	1.12	4.88	1980
1981	1.20	1.13	1.11	1.18	26.5	30.1	18.7	8.75	3.41	2.48	1.78	2.88	8.84	1981
1982	---	---	---	---	2.89	21.8	7.18	1.28	1.42	1.87	1.32	1.51	---	1982
1983	1.28	1.13	1.11	1.23	11.0	10.2	8.87	1.80	1.47	1.27	1.27	1.14	3.84	1983
1984	1.18	0.778	1.18	1.33	1.28	8.02	3.81	1.37	1.48	1.88	1.88	1.88	2.17	1984
1985	1.38	1.40	1.32	1.28	2.18	7.43	1.32	3.78	13.0	5.81	2.93	1.33	3.84	1985
1986	1.23	1.32	1.32	2.47	14.8	18.7	7.80	3.75	5.78	9.30	4.88	1.87	6.80	1986
1987	1.37	1.37	1.33	1.87	4.18	2.83	8.42	8.82	1.71	2.87	2.35	1.43	3.12	1987
1988	1.28	1.28	1.28	1.27	1.88	8.81	3.44	8.57	3.88	3.19	1.89	1.24	2.81	1988
MEAN	2.31	2.42	2.77	5.81	14.2	28.0	14.8	8.84	7.85	8.73	3.89	2.78	8.03	MEAN

LOCATION - LAT 51 00 55 N DRAINAGE AREA, 1 230 km²
LONG 114 05 33 W REGULATED SINCE 1933

ELBOW RIVER BELOW GLENMORE DAM - STATION NO. 05BJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1908	---	159 ON JUN 2	---	---	1908
1909	---	84.0 ON JUN 3	---	---	1909
1910	---	16.6 ON SEP 19	---	---	1910
1911	---	89.5 ON AUG 8	0.8788 ON DEC 26	382 000	1911
1912	---	122 ON JUN 15	0.983 ON JAN 4	387 000	1912
1913	---	38.8 ON AUG 10	1.78 ON MAR 23	294 000	1913
1914	---	26.9 ON JUN 18	2.12 B ON JAN 24	240 000	1914
1915	---	238 A ON JUN 28	1.84 B ON DEC 31	634 000	1915
1916	---	148 ON JUN 29	1.87 B ON JAN 1	584 000	1916
1917	---	147 ON JUN 3	2.32 B ON DEC 12	434 000	1917
1918	---	35.4 ON JUN 10	2.24 B ON MAR 8	233 000	1918
1919	---	72.5 ON AUG 6	2.10 B ON MAR 1	218 000	1919
1920	---	57.7 ON JUL 13	1.27 B ON DEC 23	309 000	1920
1921	---	37.4 ON MAY 25	0.7938 ON DEC 28	227 000	1921
1922	---	26.5 ON MAY 17	0.5108 ON DEC 15	195 000	1922
1923	---	331 ON JUN 1	1.08 B ON JAN 15	486 000	1923
1924	---	59.5 ON AUG 4	1.19 B ON DEC 18	328 000	1924
1925	---	86.5 ON JUN 12	2.46 B ON JAN 2	316 000	1925
1926	---	88.1 ON SEP 11	3.09 B ON DEC 18	359 000	1926
1927	---	83.3 ON JUN 10	2.55 B ON DEC 31	482 000	1927
1928	---	100 ON JUN 19	1.98 B ON DEC 4	408 000	1928
1929	---	382 ON JUN 3 *	1.00 B ON FEB 2	326 000	1929
1930	---	30.6 ON MAY 31	1.78 B ON JAN 17	243 000	1930
1931	---	22.9 ON APR 6	1.33 B ON DEC 15	138 000	1931
1932	---	311 ON JUN 3	1.08 B ON FEB 23	---	1932
1933	---	---	---	---	1933
1934	---	32.0 ON JUN 5	2.80 ON JUL 24	152 000	1934
1935	---	32.8 ON JUN 18	1.58 ON JAN 6	158 000	1935
1936	---	35.7 ON JUN 8	0.481 ON JUL 27	107 000	1936
1937	---	54.8 ON JUN 14	0.595 ON MAY 19	182 000	1937
1938	---	59.5 ON MAY 24	2.21 ON APR 21	287 000	1938
1939	---	104 ON JUN 17	1.76 ON SEP 8	213 000	1939
1940	---	40.5 ON APR 30	2.61 ON JAN 6	203 000	1940
1941	---	27.0 ON JUN 4	0.386 ON MAY 25	148 000	1941
1942	---	128 ON MAY 12	1.84 ON JAN 15	438 000	1942
1943	---	34.8 ON APR 25	2.92 ON NOV 22	248 000	1943
1944	---	26.5 ON JUN 14	1.73 ON FEB 6	158 000	1944
1945	---	57.7 ON MAY 26	1.81 ON MAR 14	333 000	1945
1946	---	54.1 ON SEP 25	1.87 ON FEB 14	259 000	1946
1947	---	79.3 ON MAY 11	3.48 ON JAN 26	347 000	1947
1948	---	154 ON MAY 24	1.83 ON DEC 24	404 000	1948
1949	---	22.8 ON MAY 22	0.638 ON AUG 21	135 000	1949
1950	---	33.1 ON JUN 15	0.880 ON NOV 22	200 000	1950
1951	---	152 ON AUG 31	0.785 ON JAN 27	884 000	1951
1952	---	80.4 ON APR 7	2.38 ON APR 2	404 000	1952
1953	---	124 ON JUN 4	1.90 ON JAN 19	418 000	1953
1954	---	59.7 ON MAY 22	0.878 ON OCT 5	380 000	1954
1955	---	46.7 ON MAY 20	1.84 ON SEP 5	288 000	1955
1956	---	37.1 ON JUL 5	0.708 ON OCT 21	218 000	1956
1957	---	38.5 ON JUN 10	0.340 ON APR 11	200 000	1957
1958	---	55.2 ON JUL 14	1.80 ON JAN 19	319 000	1958
1959	---	56.1 ON JUN 27	0.880 ON JAN 6	308 000	1959
1960	---	30.3 ON MAY 16	0.425 ON JAN 19	172 000	1960
1961	---	53.2 ON MAY 29	0.425 ON DEC 21	214 000	1961
1962	---	30.9 ON JUN 16	0.388 ON DEC 31	172 000	1962
1963	---	99.1 ON JUN 30	0.283 ON FEB 26 *	195 000	1963
1964	---	70.2 ON JUN 9	0.538 ON JAN 14	218 000	1964
1965	---	89.7 ON JUN 19	0.823 ON JAN 18	353 000	1965
1966	---	37.9 ON JUL 3	0.425 ON FEB 25	201 000	1965
1967	---	148 ON JUN 1	0.823 ON JAN 1	252 000	1967
1968	---	44.2 ON JUN 11	0.311 ON FEB 23	189 000	1968
1969	---	133 ON JUN 28	0.851 ON FEB 20	287 000	1969
1970	---	105 ON JUN 14	0.510 ON MAR 13	156 000	1970
1971	---	77.9 ON JUN 7	0.425 ON MAR 8	151 000	1971
1972	---	41.1 ON JUN 11	0.566 ON NOV 25	190 000	1972
1973	---	36.2 ON MAY 26	0.708 ON OCT 24	157 000	1973
1974	---	61.7 ON JUN 17	0.851 ON JAN 19	214 000	1974
1975	80.8 AT 14:30 MST ON JUN 20	43.3 ON JUN 20	0.425 ON JAN 14	105 000	1975
1976	42.5 AT 07:30 MST ON AUG 8	37.7 ON AUG 8	0.425 ON DEC 13	120 000	1976
1977	13.7 AT 07:00 MST ON MAY 28	13.8E ON AUG 23	0.348 ON AUG 11	82 700	1977
1978	47.0 AT 08:00 MST ON JUN 8	41.8 ON JUN 8	0.8558 ON MAR 6	186 000	1978
1979	31.8 AT 23:00 MST ON MAY 25	30.8 ON MAY 27	0.9828 ON DEC 20	107 000	1979
1980	101 AT 21:30 MST ON MAY 26 *	85.3 ON JUN 3	0.7888 ON DEC 14	154 000	1980
1981	85.8 AT 20:00 MST ON MAY 28	83.0 ON MAY 27	0.569 ON MAY 9	269 000	1981
1982	41.8 AT 13:37 MST ON JUN 18	37.1 ON JUN 18	---	---	1982
1983	23.4 AT 10:53 MST ON MAY 27	22.8 ON MAY 28	1.04 ON FEB 18	112 000	1983
1984	20.1 AT 17:51 MST ON JUN 9	19.7 ON JUN 10	0.518 ON FEB 23	88 600	1984
1985	97.6 AT 23:36 MST ON SEP 13	72.6 ON SEP 13	0.7928 ON NOV 28	112 000	1985
1986	82.7 AT 17:16 MST ON MAY 28	80.2 ON MAY 28	0.8988 ON NOV 30	183 000	1986
1987	27.5 AT 15:41 MST ON JUL 23	27.2 ON JUL 20	1.22 ON DEC 19	98 400	1987
1988	38.8 AT 19:05 MST ON JUN 8	34.8 ON JUN 8	1.06 B ON DEC 28	92 200	1988
				254 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EMBARRAS RIVER AT ROSS - STATION NO. 07AF909

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	1.27	1.53	0.491	0.313	1.15	1.15	---	---	0.978	1984
1985	---	---	---	---	0.602	1.14	0.722	1.88	2.62	1.08	---	---	1.38	1985
1986	---	---	---	---	2.13	1.32	5.78	1.30	1.46	1.88	---	---	2.32	1986
1987	---	---	---	---	0.887	0.404	0.720	4.88	0.880	0.538	---	---	1.32	1987
1988	---	---	---	---	0.520	1.88	0.642	0.593	0.481	0.351	---	---	0.671	1988
MEAN	---	---	---	---	1.08	1.20	1.68	1.77	1.31	1.00	---	---	1.33	MEAN

LOCATION - LAT 53 13 19 N, LONG 116 58 04 W DRAINAGE AREA, 123 km² NATURAL FLOW DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

EMBARRAS RIVER AT ROSS - STATION NO 07AF909

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1984	5.86 AT 21:49 MST ON MAY 16	3.98 ON MAY 17	0.238 ON AUG 21 *	15 500	1984
1985	12.7 AT 09:41 MST ON SEP 13	11.4 ON SEP 13	---	22 000	1985
1986	46.4 AT 23:35 MST ON JUL 17	30.8 ON JUL 18 *	0.588 ON AUG 31	36 900	1986
1987	55.8 AT 23:48 MST ON AUG 1 *	27.7 ON AUG 2	0.270 ON JUN 15	30 900	1987
1988	8.81 AT 09:04 MST ON JUN 9	5.41 ON JUN 9	0.2808 ON OCT 31	10 700	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		21 200	MEAN

EMBARRAS RIVER BELOW DIVERGENCE - STATION NO. 07DD003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	---	---	---	---	---	117	88.8	118	35.8	10.0	---	---	---	1987
1988	---	---	---	---	---	161	259	71.3	48.2	21.1	30.8	---	---	1988
MEAN	---	---	---	---	---	139	158	94.7	42.0	15.5	30.8	---	---	MEAN

LOCATION - LAT 58 25 20 N, LONG 111 33 05 W NATURAL FLOW

EMBARRAS RIVER BELOW DIVERGENCE - STATION NO. 07DD003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1987	---	353 ON AUG 9	---	---	1987
1988	---	433 ON JUL 13 *	---	---	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

EMBARRAS RIVER BREAKTHROUGH TO MAMAWI LAKE - STATION NO. 07KF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	---	---	---	---	---	85.1	34.8	85.0	23.8	8.49	---	---	---	1987
1988	---	---	---	---	---	87.1	134	42.3	31.7	16.3	21.4	---	---	1988
MEAN	---	---	---	---	---	78.1	84.4	63.7	27.7	12.4	21.4	---	---	MEAN

LOCATION - LAT 58 28 48 N, LONG 111 28 40 W NATURAL FLOW

EMBARRAS RIVER BREAKTHROUGH TO MAMAWI LAKE - STATION NO. 07KF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1987	---	158RE ON AUG 9	---	---	1987
1988	---	220E ON JUL 13 *	---	---	1988
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1987		---	MEAN

EMBARRAS RIVER NEAR WEALD - STATION NO. 07AF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	---	---	---	0.982	5.99	4.80	---	---	---	1984
1985	---	---	0.838	2.83	2.58	4.04	2.19	5.15	8.26	4.16	---	---	3.73	1985
1986	---	---	1.40	3.51	7.41	3.93	19.3	4.73	6.12	7.80	---	---	8.78	1986
1987	---	---	0.858	1.67	2.86	1.42	1.73	16.5	3.03	1.88	---	---	3.79	1987
1988	---	---	0.700	2.38	1.53	5.33	1.85	1.56	1.24	1.13	---	---	1.93	1988
MEAN	---	---	0.946	2.60	3.54	3.68	5.27	5.88	5.12	3.91	---	---	4.05	MEAN

LOCATION - LAT 53 22 31 N, LONG 116 46 20 W DRAINAGE AREA, 847 km² NATURAL FLOW

EMBARRAS RIVER NEAR WEALD - STATION NO. 07AF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	20.1 AT 08 50 MST ON SEP 22	19.5 ON SEP 22	---	---	1984
1985	35.4 AT 18 15 MST ON SEP 13	28.0 ON SEP 14	0.5008 ON MAR 2 *	79 100	1985
1986	118 AT 10 38 MST ON JUL 18	106 ON JUL 18	0.7748 ON MAR 5	144 000	1986
1987	145 AT 12 45 MST ON AUG 2 *	113 ON AUG 2 *	0.8838 ON MAR 28	80 300	1987
1988	22.7 AT 20 37 MST ON JUN 9	19.2 ON JUN 12	0.5218 ON MAR 17	41 300	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 200	MEAN

SMITH RIVER BELOW HANLAN CREEK - STATION NO. 07AF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	5.74	4.35	0.982	0.713	5.82	3.78	---	---	3.51	1984
1985	---	---	---	---	4.28	4.54	1.96	5.96	8.45	3.86	---	---	4.77	1985
1986	---	---	---	---	11.9	4.93	39.3	4.18	6.53	7.88	---	---	12.5	1986
1987	---	---	---	3.37	3.43	1.71	2.88	11.8	3.17	1.30	---	---	3.88	1987
1988	---	---	---	---	2.27	5.50	2.09	1.79	1.37	1.01	---	---	2.47	1988
MEAN	---	---	---	3.37	5.52	4.33	9.48	4.85	4.81	3.61	---	---	5.43	MEAN

LOCATION - LAT 53 14 08 N, LONG 116 33 55 W DRAINAGE AREA, 595 km² NATURAL FLOW DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

SMITH RIVER BELOW HANLAN CREEK - STATION NO. 07AF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	35.5E AT 03 30 MST ON MAY 17	30.0A ON MAY 17	0.625A ON AUG 10 *	55 900	1984
1985	38.9 AT 10 55 MST ON SEP 13	32.7 ON SEP 13	---	75 800	1985
1986	337 E AT 07 00 MST ON JUL 18 *	313 E ON JUL 18 *	1.87 ON SEP 1	188 000	1986
1987	84.7 AT 05 27 MST ON AUG 2	82.2 ON AUG 2	0.926 ON JUL 3	51 800	1987
1988	33.6 AT 15 30 MST ON JUN 9	33.9 ON JUN 9	0.638 ON SEP 7	38 300	1988
	A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 200	MEAN

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	0.048	0.045	0.033	---	---	1967
1968	---	---	---	---	---	0.171	0.284	0.208	0.113	0.081	0.055	---	---	1968
1969	---	---	---	---	0.187	0.174	0.445	0.448	0.120	0.088	---	---	---	1969
1970	---	---	---	---	0.249	0.311	0.110	0.081	0.041	0.038	---	---	---	1970
1971	---	---	---	0.042	0.282	0.837	0.348	0.104	0.088	0.118	---	---	0.333	1971
1972	---	---	---	---	0.448	0.537	0.224	0.087	0.103	0.171	---	---	---	1972
1973	---	---	---	0.027	0.732	0.306	0.182	0.095	0.075	0.082	---	---	0.312	1973
1974	---	---	---	0.118	0.828	0.247	0.144	0.080	0.088	0.082	---	---	0.178	1974
1975	---	---	---	0.011	0.193	0.182	0.115	0.082	0.048	0.038	---	---	0.083	1975
1976	---	---	---	0.048	0.223	0.312	0.109	0.135	0.073	0.082	---	---	0.123	1976
1977	---	---	---	0.048	0.865	0.470	0.373	0.333	0.284	0.188	---	---	0.320	1977
1978	---	---	---	0.112	0.423	0.388	0.338	0.183	0.395	0.107	---	---	0.288	1978
1979	---	---	---	0.028	0.244	0.303	0.123	0.078	0.083	0.048	---	---	0.110	1979
1980	---	---	---	0.131	0.281	1.32	0.480	0.198	0.259	0.181	---	---	0.388	1980
1981	---	---	---	0.043	0.198	0.237	0.284	0.194	0.081	0.072	---	---	0.187	1981
1982	---	---	---	0.042	0.225	0.236	0.708	0.298	0.188	0.251	---	---	0.260	1982
1983	---	---	---	0.080	0.240	0.228	0.174	0.085	0.053	0.053	---	---	0.129	1983
1984	---	---	---	0.078	0.144	0.239	0.078	0.060	0.088	0.153	---	---	0.115	1984
1985	---	---	---	0.080	0.098	0.183	0.088	0.248	0.283	0.153	---	---	0.183	1985
1986	---	---	---	0.084	0.238	0.185	0.841	0.348	0.208	0.388	---	---	0.308	1986
1987	---	---	---	0.028	0.070	0.078	0.088	0.517	0.135	0.078	---	---	0.142	1987
1988	---	---	---	0.084	0.082	0.202	0.070	0.080	0.048	0.048	---	---	0.088	1988
MEAN	---	---	---	0.064	0.287	0.318	0.284	0.173	0.123	0.108	0.044	---	0.184	MEAN

LOCATION - LAT 53 08 10 N, LONG 117 13 55 W DRAINAGE AREA, 17.1 km² NATURAL FLOW

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	1.04 AT 18:30 MST ON JUL 30	0.773 ON JUL 22	---	---	1968
1969	8.21 AT 17:47 MST ON AUG 5	2.86 ON AUG 5	---	---	1969
1970	2.58 AT 06:00 MST ON JUN 16	1.66 ON JUN 16	---	---	1970
1971	2.78 AT 23:30 MST ON JUN 8	2.25 ON JUN 9	0.0038 ON APR 11	4 310	1971
1972	2.83 AT 14:30 MST ON JUN 25	2.17 ON JUN 25	---	---	1972
1973	2.70 AT 19:30 MST ON MAY 16	2.05 ON MAY 16	0.0148 ON APR 1	3 930	1973
1974	1.08 AT 20:30 MST ON MAY 6	0.835 ON MAY 7	0.0248 ON APR 1	3 300	1974
1975	1.03 AT 19:20 MST ON MAY 8	0.690 ON MAY 9	0.0088 ON APR 1	1 680	1975
1976	0.623 AT [illegible]:20 MST ON JUN 15	0.541 ON JUN 15	0.0068 ON APR 1	2 270	1976
1977	2.92 AT 17:30 MST ON MAY 29	1.94 ON MAY 29	0.0318 ON APR 1	5 920	1977
1978	2.75 AT 06:20 MST ON MAY 16	2.03 ON MAY 16	0.0108 ON APR 1	4 710	1978
1979	1.34 AT 09:10 MST ON JUN 20	0.780 ON JUN 20	0.0048 ON APR 1	2 040	1979
1980	9.04 AT 15:10 MST ON JUN 4 *	7.00 ON JUN 4 *	0.0188 ON APR 1	7 370	1980
1981	0.868 AT 07:10 MST ON JUL 30	0.755 ON JUL 30	0.0108 ON APR 1	2 810	1981
1982	3.99 AT 21:45 MST ON JUL 4	3.03 ON JUL 5	0.0028 ON APR 1 *	5 180	1982
1983	0.880 AT 08:30 MST ON JUN 24	0.706 ON JUN 24	0.030 ON APR 9	2 380	1983
1984	0.891 AT 20:10 MST ON JUN 8	0.738 ON JUN 8	0.0288 ON APR 14	2 130	1984
1985	1.09 AT 12:50 MST ON AUG 15	0.896 ON SEP 13	0.0158 ON APR 20	3 010	1985
1986	6.34 AT 19:51 MST ON JUL 17	4.01 ON JUL 18	0.0308 ON APR 4	5 880	1986
1987	5.38 AT 18:15 MST ON AUG 1	2.31 ON AUG 2	0.0188 ON APR 18	2 840	1987
1988	1.58 AT 01:44 MST ON JUN 8	0.905 ON JUN 8	0.0188 ON APR 1	1 580	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 590	MEAN

FISH CREEK NEAR HINTON - STATION NO. 07AD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	0.125	0.118	0.117	0.210	---	---	---	---	1972
1973	---	---	---	---	0.474	0.213	0.076	0.123	0.080	---	---	---	---	1973
1974	---	---	---	0.234	0.382	0.089	0.153	0.080	---	---	---	---	---	1974
MEAN	---	---	---	0.234	0.433	0.158	0.116	0.100	0.088	0.210	---	---	---	MEAN

LOCATION - LAT 53 29 10 N, LONG 117 39 05 W. DRAINAGE AREA, 25.6 km^2. NATURAL FLOW

FISH CREEK NEAR HINTON - STATION NO. 07AD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	1.98 AT 14:30 MST ON JUN 24 *	1.31 ON JUN 24 *	---	---	1973
1974	0.937 AT 18:20 MST ON APR 25	0.748 ON JUL 12	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

FREEMAN RIVER NEAR FORT ASSINIBOINE - STATION NO. 07AH001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	45.0	31.4	32.0	20.8	8.16	---	---	---	1965
1966	---	---	0.107	3.45	22.7	9.88	13.1	14.8	6.04	0.685	---	---	9.39	1966
1967	---	---	0.709	2.49	42.7	20.4	1.72	1.19	0.880	0.818	---	---	8.82	1967
1968	---	---	1.12	3.34	20.8	23.1	4.28	2.81	3.23	3.28	---	---	7.81	1968
1969	---	---	0.446	20.0	11.3	1.95	2.86	7.27	12.9	3.80	---	---	7.52	1969
1970	---	---	1.13	4.84	27.8	18.6	13.1	8.02	4.70	2.18	---	---	9.81	1970
1971	---	---	0.500	10.6	17.8	38.1	87.0	17.4	3.84	2.73	---	---	23.5	1971
1972	---	---	0.580	4.72	83.6	25.2	14.8	7.59	4.02	3.38	---	---	15.5	1972
1973	---	---	0.582	5.77	19.1	29.1	6.65	9.57	5.34	5.41	---	---	10.4	1973
1974	---	---	0.821	26.7	73.5	11.6	33.1	5.10	3.81	3.32	---	---	19.8	1974
1975	---	---	0.682	7.76	20.3	25.1	15.7	8.86	12.2	4.32	---	---	11.8	1975
1976	---	---	0.795	19.3	11.8	11.8	17.5	35.8	18.4	8.05	---	---	14.7	1976
1977	---	---	1.37	18.7	42.6	28.8	29.3	8.02	6.22	5.48	---	---	18.8	1977
1978	---	---	0.928	8.26	15.7	16.7	18.3	7.35	21.0	8.11	---	---	12.1	1978
1979	---	---	1.22	4.03	46.2	45.9	44.6	7.77	2.35	2.06	---	---	18.2	1979
1980	---	---	0.185	13.8	7.26	11.8	13.4	10.4	18.6	8.81	---	---	8.97	1980
1981	---	---	1.27	9.51	10.8	14.2	6.35	3.13	1.07	1.57	---	---	6.21	1981
1982	---	---	0.382	3.86	30.9	4.18	28.6	32.4	6.78	3.81	---	---	13.8	1982
1983	---	---	0.213	5.78	4.86	21.9	83.0	10.7	4.78	3.55	---	---	14.3	1983
1984	---	---	0.842	7.08	17.4	38.1	12.7	4.48	4.81	3.51	---	---	11.2	1984
1985	---	---	1.36	8.94	25.2	18.5	8.50	4.08	15.8	11.4	---	---	10.3	1985
1986	---	---	1.01	17.1	37.4	15.7	38.7	8.88	3.86	8.80	---	---	18.3	1986
1987	---	---	0.920	7.17	11.7	9.02	3.58	19.5	8.50	3.78	---	---	8.01	1987
1988	---	---	0.588	5.62	7.86	20.3	50.5	8.23	3.80	2.68	---	---	12.4	1988
MEAN	---	---	0.778	9.36	25.8	20.8	23.7	11.8	7.78	4.41	---	---	12.8	MEAN

LOCATION - LAT 54 21 52 N, LONG 114 54 13 W. DRAINAGE AREA, 1 880 km^2. NATURAL FLOW

FREEMAN RIVER NEAR FORT ASSINIBOINE - STATION NO. 07AH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	389 ON JUN 29 *	---	---	1965
1966	---	67.1 ON AUG 29	0.0578 ON MAR 1 *	188 000	1966
1967	---	72.8 ON MAY 18	0.5418 ON MAR 1	186 000	1967
1968	---	49.6 ON JUN 14	1.02 B ON MAR 17	185 000	1968
1969	---	46.4 ON APR 19	0.0578 ON MAR 1	159 000	1969
1970	101 AT 11:42 MST ON JUN 17	83.6 ON JUN 17	0.6788 ON APR 9	268 000	1970
1971	---	382 A ON JUL 5	0.453 ON MAR 1	498 000	1971
1972	187 AT 15:00 MST ON MAY 18 *	171 ON MAY 18	0.4538 ON MAR 1	329 000	1972
1973	124 AT 14:00 MST ON JUN 17	103 ON JUN 17	0.5388 ON MAR 1	220 000	1973
1974	---	231 ON JUL 14	0.8138 ON APR 2	419 000	1974
1975	---	227 A ON JUN 29	0.6808 ON MAR 1	250 000	1975
1976	---	186 A ON AUG 28	0.7798 ON MAR 1	312 000	1976
1977	---	116 ON MAY 7	1.05 B ON MAR 25	356 000	1977
1978	---	77.0 ON JUL 12	0.6578 ON MAR 22	257 000	1978
1979	---	223 ON JUL 3	0.6688 ON MAR 1	406 000	1979
1980	---	35.7 ON SEP 18	0.0918 ON MAR 2	211 000	1980
1981	---	36.0 ON JUL 23	0.846 ON SEP 17	131 000	1981
1982	---	181 ON AUG 5	0.2908 ON MAR 19	282 000	1982
1983	---	188 ON JUL 10	0.1528 ON MAR 1	302 000	1983
1984	---	218 ON JUN 8	0.7508 ON MAR 16	236 000	1984
1985	---	80.1 ON JUN 26	0.2908 ON MAR 1	232 000	1985
1986	---	146 ON JUL 19	0.3508 ON MAR 8	345 000	1986
1987	66.8 ON AUG 2	51.8 ON AUG 2	0.8008 ON MAR 1	185 000	1987
1988	---	195 ON JUL 8	0.0908 ON MAR 3	263 000	1988
				267 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GREGG RIVER NEAR HINTON - STATION NO. 07AF005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	3.81	8.70	2.70	1.19	4.81	7.91	---	---	4.83	1984
1985	---	---	---	---	3.34	6.28	3.78	6.78	6.28	3.65	---	---	5.34	1985
MEAN	---	---	---	---	3.58	7.50	3.25	3.99	6.55	5.78	---	---	5.09	MEAN

LOCATION - LAT 53 15 08 N, LONG 117 21 30 W DRAINAGE AREA, 384 km^2 DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

GREGG RIVER NEAR HINTON - STATION NO. 07AF005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	21.7 AT 23:57 MST ON OCT 4	20.4 ON OCT 5	0.789 ON AUG 28 *	78 900	1984
1985	22.8 AT 23:10 MST ON SEP 12 *	21.6 ON SEP 12 *	---	84 900	1985
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		80 900	MEAN

GREGG RIVER NEAR THE MOUTH - STATION NO. 07AF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	7.57	3.83	---	---	---	1985
1986	---	---	0.819	1.47	6.48	5.19	17.3	4.08	3.65	6.52	---	---	5.64	1986
1987	---	---	0.582	0.919	1.88	1.78	3.07	15.6	3.78	1.59	---	---	3.67	1987
1988	---	---	0.438	1.98	2.25	4.38	2.03	3.57	1.97	1.78	---	---	2.30	1988
MEAN	---	---	0.613	1.46	3.54	4.12	7.47	7.75	4.24	3.43	---	---	3.94	MEAN

LOCATION - LAT 53 15 07 N, LONG 117 21 23 W DRAINAGE AREA, 384 km^2, NATURAL FLOW

GREGG RIVER NEAR THE MOUTH - STATION NO. 07AF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	23.4 AT 12:11 MST ON SEP 13	---	---	---	1985
1986	107 AT 03:15 MST ON JUL 18 *	83.6 ON JUL 18 *	0.5558 ON MAR 6	124 000	1986
1987	88.1 AT 05:21 MST ON AUG 2	78.0 ON AUG 2	0.4408 ON MAR 1	77 800	1987
1988	16.1 AT 11:54 MST ON JUN 9	11.8 ON JUN 9	0.3398 ON MAR 3 *	48 600	1988
				83 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GROAT CREEK NEAR WHITECOURT - STATION NO. 07AG008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	---	---	---	0.216	1.98	0.583	---	---	---	1984
1985	---	---	0.091	1.73	2.31	3.71	0.268	0.293	2.37	1.08	---	---	1.47	1985
1986	---	---	0.082	2.65	3.07	---	---	0.325	0.290	0.482	---	---	---	1986
1987	---	---	0.125	0.480	1.57	0.445	0.223	0.739	0.524	0.243	---	---	0.542	1987
1988	---	---	0.178	0.584	0.567	0.693	1.69	0.869	0.291	0.235	---	---	0.648	1988
MEAN	---	---	0.118	1.35	1.88	1.82	0.734	0.508	1.08	0.517	---	---	0.887	MEAN

LOCATION - LAT 54 01 57 N
LONG 115 50 30 W
DRAINAGE AREA, 134 km²
NATURAL FLOW

GROAT CREEK NEAR WHITECOURT - STATION NO. 07AG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1984	---	---	---	---	1984
1985	82.7 AT 09:20 MST ON JUN 24 *	64.0 ON JUN 24 *	0.0558 ON MAR 1	31 100	1985
1986	84.0 ON JUL 19	---	0.0028 ON MAR 1 *	---	1986
1987	4.96 AT 21:48 MST ON SEP 3	3.06 ON SEP 3	0.1068 ON MAR 1	11 500	1987
1988	40.2 AT 16:38 MST ON JUL 6	17.8 ON JUL 6	0.0908 ON MAR 1	13 700	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		18 800	MEAN

MINTON STUDY BASIN NO.1 - STATION NO. 07AD006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	---	0.036	---	---	---	---	---	1974
MEAN	---	---	---	---	---	---	---	0.036	---	---	---	---	---	MEAN

LOCATION - LAT 53 41 53 N
LONG 117 33 48 W
DRAINAGE AREA, 16.8 km²
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

MINTON STUDY BASIN NO.1 - STATION NO. 07AD006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	0.572A AT 01:30 MST ON MAY 12 *	0.572A ON MAY 12 *	---	---	1974
A - MANUAL GAUGE (SEE REFERENCE INDEX)		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

MINTON STUDY BASIN NO.14 - STATION NO. 07AC006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	0.149	0.124	0.088	---	---	---	---	---	1974
MEAN	---	---	---	---	---	0.149	0.124	0.088	---	---	---	---	---	MEAN

LOCATION - LAT 53 42 15 N
LONG 116 15 47 W
DRAINAGE AREA, 12.2 km²
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

MINTON STUDY BASIN NO.14 - STATION NO. 07AC006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	0.623 AT 00:30 MST ON JUL 12 *	0.428 ON JUL 12 *	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

MINTON STUDY BASIN NO.15 - STATION NO. 07AF011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	0.292	0.150	0.151	0.107	---	---	---	---	---	1974
MEAN	---	---	---	---	0.292	0.150	0.151	0.107	---	---	---	---	---	MEAN

LOCATION - LAT 53 15 15 N
LONG 117 15 04 W
DRAINAGE AREA, 19.7 km²
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.1S - STATION NO. 07AF011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	0.574 AT 03:20 MST ON JUL 12 *	0.473 ON JUL 12 *	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

HINTON STUDY BASIN NO.2 - STATION NO. 07AD009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	0.107	0.116	0.101	---	---	---	---	---	1974
MEAN	---	---	---	---	---	0.107	0.116	0.101	---	---	---	---	---	MEAN

LOCATION - LAT 53 41 03 N, LONG 117 33 48 W
DRAINAGE AREA, 14.5 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.2 - STATION NO. 07AD009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	0.855A AT 08:20 MST ON MAY 8 *	0.841A ON MAY 8 *	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

HINTON STUDY BASIN NO.5 - STATION NO. 07AD010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	0.706	0.188	0.289	0.168	---	---	---	---	---	1974
MEAN	---	---	---	---	0.706	0.188	0.289	0.168	---	---	---	---	---	MEAN

LOCATION - LAT 53 37 18 N, LONG 117 31 28 W
DRAINAGE AREA, 19.7 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.5 - STATION NO. 07AD010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	1.58 AT 22:40 MST ON MAY 7 *	1.28 ON MAY 7 *	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

HINTON STUDY BASIN NO.8 - STATION NO. 07AE002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	0.865	0.358	0.287	0.085	---	---	---	---	---	1974
MEAN	---	---	---	---	0.865	0.358	0.287	0.085	---	---	---	---	---	MEAN

LOCATION - LAT 53 54 55 N, LONG 118 43 20 W
DRAINAGE AREA, 23.8 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.8 - STATION NO. 07AE002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	2.73 AT 08:20 MST ON JUL 12 *	2.08 ON JUL 12 *	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

HINTON STUDY BASIN NO.7 - STATION NO. 07AE003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	1.23	0.355	0.427	0.188	---	---	---	---	---	1974
MEAN	---	---	---	---	1.23	0.355	0.427	0.188	---	---	---	---	---	MEAN

LOCATION - LAT 53 54 22 N, LONG 118 45 44 W DRAINAGE AREA, 22.0 km² NATURAL FLOW DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.7 - STATION NO. 07AE003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	2.74 AT 07:30 MST ON JUL 12 *	2.22 ON JUL 12 *	---	---	1974
	* - EXTREME RECORDED FOR THE PERIOD OF RECORD			---	MEAN

HINTON STUDY BASIN NO.8 - STATION NO. 07AG005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	1.15	0.287	0.313	0.125	---	---	---	---	---	1974
MEAN	---	---	---	---	1.15	0.287	0.313	0.125	---	---	---	---	---	MEAN

LOCATION - LAT 53 48 43 N, LONG 118 44 52 W DRAINAGE AREA, 23.1 km² NATURAL FLOW DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.8 - STATION NO. 07AG005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	3.37 AT 06:20 MST ON JUL 12 *	2.38 ON JUL 12 *	---	---	1974
	* - EXTREME RECORDED FOR THE PERIOD OF RECORD			---	MEAN

HINTON STUDY BASIN NO.9 - STATION NO. 07AG006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	0.381	0.104	0.114	0.030	---	---	---	---	---	1974
MEAN	---	---	---	---	0.381	0.104	0.114	0.030	---	---	---	---	---	MEAN

LOCATION - LAT 53 50 00 N, LONG 118 40 54 W DRAINAGE AREA, 7.54 km² NATURAL FLOW DATA CONTRIBUTED BY - CANADIAN FORESTRY SERVICE (DOE) (CANADA)

HINTON STUDY BASIN NO.9 - STATION NO. 07AG006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	0.974 AT 09:20 MST ON JUL 12 *	0.758 ON APR 28 *	---	---	1974
	* - EXTREME RECORDED FOR THE PERIOD OF RECORD			---	MEAN

JACKFISH CREEK NEAR LA COREY - STATION NO. 08AC001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.095	1.25	2.08	0.277	0.130	0.220	0.038	0.111	---	---	0.528	1972
1973	---	---	0.184	1.01	1.38	1.18	0.813	0.664	0.678	1.20	---	---	0.888	1973
1974	---	---	0.251	4.74	9.80	2.23	0.400	0.073	0.046	0.034	---	---	2.19	1974
1975	---	---	0.087	1.20	3.20	2.28	2.92	1.06	0.388	0.085	---	---	1.41	1975
1976	---	---	0.184	0.880	0.201	0.227	1.49	0.721	0.181	0.062	---	---	0.488	1976
1977	---	---	0.018	0.398	0.433	0.168	0.346	0.304	0.284	0.213	---	---	0.271	1977
1978	---	---	0.235	1.06	1.73	1.48	0.481	0.122	0.106	0.054	---	---	0.656	1978
1979	---	---	0.066	0.550	1.16	0.727	0.524	0.194	0.140	0.078	---	---	0.444	1979
1980	---	---	0.094	0.673	0.265	0.023	0.009	0.201	0.182	0.214	---	---	0.208	1980
1981	---	---	0.272	0.789	0.423	0.117	0.083	0.086	0.005	0.005	---	---	0.222	1981
1982	---	---	0	0.545	0.238	0.039	0.305	0.283	0.141	0.005	---	---	0.194	1982
1983	---	---	0.148	0.415	0.378	0.086	0.354	0.195	0.085	0.058	---	---	0.212	1983
1984	---	---	0.247	0.482	0.188	1.05	0.239	0.005	0.002	0.012	---	---	0.275	1984
1985	---	---	0.198	0.932	0.861	0.038	0.008	0.012	0.036	0.001	---	---	0.235	1985
1986	---	---	0.105	0.610	0.570	0.270	0.111	0.006	0.038	0.026	---	---	0.218	1986
1987	---	---	0.048	1.46	0.828	0.134	0.017	0.009	0.001	0.001	---	---	0.285	1987
1988	---	---	0.100	0.148	0.093	0.001	0.011	0	0	0	---	---	0.044	1988
MEAN	---	---	0.136	1.01	1.38	0.808	0.485	0.244	0.138	0.127	---	---	0.515	MEAN

LOCATION - LAT 54 26 30 N, LONG 110 41 10 W DRAINAGE AREA, 489 km² NATURAL FLOW

JACKFISH CREEK NEAR LA COREY - STATION NO. 08AC001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	3.26 B ON APR 24	0.014E ON SEP 3	11 100	1972
1973	2.26 B AT 08:30 MST ON APR 14	1.85 ON MAY 11	0.085B ON MAR 1	18 800	1973
1974	13.2 AT 08:00 MST ON MAY 3 *	13.1 ON MAY 3 *	0.008 ON OCT 22	46 400	1974
1975	---	4.11 ON JUL 7	0.042B ON MAR 1	28 800	1975
1976	2.32 AT 23:00 MST ON JUL 21	2.31 ON JUL 21	0.014B ON OCT 27	10 300	1976
1977	---	0.778B ON APR 20	0 B ON MAR 1 *	5 740	1977
1978	2.60 B AT 09:00 MST ON APR 29	2.60 B ON APR 29	0.003 ON SEP 20	13 900	1978
1979	3.47 B AT 12:00 MST ON MAY 2	3.47 B ON APR 20	0.022B ON MAR 14	8 380	1979
1980	2.85 B AT 07:40 MST ON APR 22	1.85 B ON APR 22	0.001 ON MAY 27	4 370	1980
1981	1.60 B AT 09:50 MST ON APR 18	1.18 B ON APR 18	0.001E ON SEP 15	4 680	1981
1982	---	2.30 B ON APR 23	0 B ON MAR 1	4 110	1982
1983	---	0.800E ON JUL 30	0.006E ON JUN 11	4 500	1983
1984	---	1.50 ON JUN 9	0.001E ON JUL 28	5 830	1984
1985	1.95 AT 12:20 MST ON SEP 8	1.65 B ON APR 15	0.001 ON JUN 14	4 980	1985
1986	1.59 B AT 09:13 MST ON APR 10	1.20 B ON APR 18	0.002 ON SEP 25	4 570	1986
1987	3.21 B AT 07:26 MST ON APR 17	2.36 B ON APR 17	0.001 ON JUL 18	8 040	1987
1988	0.396B AT 14:35 MST ON MAR 15	0.309B ON APR 4	0 ON MAY 21	924	1988
				10 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE BERLAND RIVER AT HIGHWAY NO. 40 - STATION NO. 07AC008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	0.135	0.234	1.55	2.57	3.91	1.52	0.818	1.49	---	---	1.53	1986
1987	---	---	0.161	0.185	0.578	0.928	1.09	3.90	1.03	0.804	---	---	1.07	1987
1988	---	---	0.161	0.235	0.353	0.792	0.630	0.528	0.493	0.412	---	---	0.451	1988
MEAN	---	---	0.152	0.221	0.830	1.43	1.88	1.98	0.780	0.835	---	---	1.02	MEAN

LOCATION - LAT 53 40 43 N, LONG 118 14 18 W DRAINAGE AREA, 84.0 km² NATURAL FLOW

LITTLE BERLAND RIVER AT HIGHWAY NO. 40 - STATION NO. 07AC008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1986	14.8 AT 08:14 MST ON JUL 18	14.0 ON JUL 18	0.080B ON MAR 5 *	32 500	1986
1987	16.5 AT 04:40 MST ON AUG 2 *	14.5 ON AUG 2 *	0.142B ON MAR 5	22 500	1987
1988	1.57 AT 11:19 MST ON JUN 11	1.44 ON JUN 11	0.147B ON MAR 1	9 540	1988
				21 500	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE ELBOW RIVER ABOVE NIHAHI CREEK - STATION NO. 05BJ003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	7.76	4.82	2.89	2.34	2.08	---	---	---	1978
1979	---	---	---	---	2.87	4.71	2.89	1.91	1.51	1.23	---	---	2.51	1979
1980	---	---	---	---	4.36	6.32	3.01	2.90	2.57	2.04	---	---	3.85	1980
1981	---	---	---	---	5.39	6.81	6.06	3.13	1.84	1.48	---	---	4.32	1981
1982	---	---	---	---	2.12	5.78	3.04	1.76	1.62	1.58	---	---	2.80	1982
1983	---	---	---	---	3.11	4.42	3.34	1.76	1.36	1.18	---	---	2.63	1983
1984	---	---	---	---	1.52	4.70	2.61	1.84	1.38	1.44	---	---	2.20	1984
1985	---	---	---	---	2.83	3.70	2.13	2.66	3.21	1.82	---	---	2.68	1985
1986	---	---	---	---	4.97	7.66	3.95	2.61	2.02	2.03	---	---	3.87	1986
1987	---	---	---	---	3.02	3.17	3.39	2.35	1.59	1.32	---	---	2.47	1987
1988	---	---	---	---	2.83	4.76	2.16	3.15	2.11	1.88	---	---	2.81	1988
MEAN	---	---	---	---	3.38	5.72	3.40	2.42	1.97	1.64	---	---	3.00	MEAN

LOCATION - LAT 50 47 42 N, LONG 114 55 00 W DRAINAGE AREA, 129 km² NATURAL FLOW

LITTLE ELBOW RIVER ABOVE NIHAHI CREEK - STATION NO. 05BJ003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	19.0 AT 20:00 MST ON JUN 5	14.2 ON JUN 5	---	---	1978
1979	13.4 AT 23:00 MST ON MAY 26	9.84 ON MAY 27	1.11 ON OCT 30	40 000	1979
1980	17.3 AT 20:00 MST ON JUN 10	13.5 ON JUN 10	1.74 A ON OCT 31	61 300	1980
1981	---	23.0 E ON MAY 25 *	1.31 ON MAY 8	58 600	1981
1982	11.8 AT 20:39 MST ON JUN 13	10.1 ON JUN 14	0.981 ON MAY 8	44 600	1982
1983	11.4 AT 20:29 MST ON MAY 29	8.58 ON MAY 29	1.09 ON OCT 28	40 100	1983
1984	8.22 AT 19:49 MST ON MAY 30	6.71 ON JUN 15	0.852 ON MAY 1 *	35 000	1984
1985	9.16 AT 19:35 MST ON SEP 12	7.44 ON SEP 13	0.880 ON MAY 1	42 700	1985
1986	24.6 AT 21:59 MST ON MAY 26 *	18.8 ON MAY 29	0.898 ON MAY 2	61 500	1986
1987	7.78 AT 17:56 MST ON JUN 16	6.91 ON JUN 16	1.20 ON OCT 28	39 300	1987
1988	20.0 AT 23:09 MST ON JUN 7	12.0 ON JUN 8	1.14 ON MAY 3	44 600	1988
				47 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE PADDLE RIVER NEAR MAYERTHORPE - STATION NO. 07BB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.118	8.61	1.73	0.305	0.382	0.018	0	0	---	---	1.40	1963
1964	---	---	0	0.295	1.19	0.114	0.201	0.234	0.594	0.287	---	---	0.384	1964
1965	---	---	0.010	8.05	3.40	7.48	3.24	0.255	0.275	0.129	---	---	2.83	1965
1966	---	---	0.727	3.03	2.48	1.52	1.25	1.29	0.483	0.194	---	---	1.37	1966
1967	---	---	0	1.48	2.29	0.555	0.017	0.004	0	0	---	---	0.543	1967
1968	---	---	0.766	0.257	0.850	0.021	0.003	0.008	0.010	0.119	---	---	0.258	1968
1969	---	---	0.003	4.17	0.428	0.057	0.033	0.857	0.763	0.167	---	---	0.773	1969
1970	---	---	0.344	3.83	0.916	0.185	0.290	0.083	0.004	0.012	---	---	0.709	1970
1971	---	---	0.014	5.90	1.02	4.16	10.8	0.335	0.123	0.150	---	---	2.80	1971
1972	---	---	0.810	5.73	3.25	2.54	0.464	0.287	0.045	---	---	---	---	1972
1973	---	---	0.240	2.58	1.88	2.86	0.538	0.388	0.413	0.762	---	---	1.20	1973
1974	---	---	0.114	17.3	5.70	0.830	3.02	0.339	0.167	0.121	---	---	3.82	1974
1975	---	---	0.038	2.42	1.80	2.78	0.738	0.185	0.167	0.163	---	---	1.00	1975
1976	---	---	0.527	2.21	0.263	0.176	0.094	0.882	0.536	0.196	---	---	0.580	1976
1977	---	---	0.321	2.71	5.89	1.66	3.47	0.845	1.01	0.275	---	---	2.05	1977
1978	---	---	1.15	1.69	1.46	2.10	2.14	0.403	2.80	0.574	---	---	1.51	1978
1979	---	---	2.08	3.80	4.22	4.03	5.38	0.242	0.034	0.051	---	---	2.48	1979
1980	---	---	0.062	3.63	0.554	5.56	0.890	0.887	0.880	0.308	---	---	1.51	1980
1981	---	---	1.71	1.38	0.881	0.576	0.412	0.150	0.024	0.075	---	---	0.851	1981
1982	---	---	0.010	5.12	2.18	0.370	2.44	0.383	0.263	0.174	---	---	1.38	1982
1983	---	---	0.028	1.38	0.288	0.985	3.03	0.098	0.014	0.057	---	---	0.732	1983
1984	---	---	0.124	0.443	1.18	1.88	0.068	0	0.186	0.338	---	---	0.498	1984
1985	---	---	1.76	2.61	0.828	3.03	0.538	0.210	1.07	0.471	---	---	1.34	1985
1986	---	---	2.14	4.13	2.15	1.02	3.85	0.112	0.135	0.374	---	---	1.71	1986
1987	---	---	0.271	1.51	0.732	0.141	0.031	0.110	0.011	0.012	---	---	0.350	1987
1988	---	---	0.077	0.257	0.135	0.885	2.92	0.388	0.127	0.098	---	---	0.614	1988
MEAN	---	---	0.510	3.85	1.90	1.75	1.77	0.310	0.372	0.204	---	---	1.28	MEAN

LOCATION - LAT 53 57 51 N, LONG 115 10 29 W DRAINAGE AREA, 298 km² NATURAL FLOW

LITTLE PADDLE RIVER NEAR MAYERTHORPE - STATION NO. 07BB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	34.6 A ON APR 18	32.0 A ON APR 18	0 B ON MAR 1 *	29 600	1963
1964	---	8.08 ON MAY 7	0 B ON MAR 1	7 710	1964
1965	---	---	---	---	1965
1966	---	66.3 ON JUN 28 *	0 ON AUG 24	59 800	1966
1967	---	14.0 B ON APR 1	0.0038 ON MAR 1	28 900	1967
1968	---	5.80 ON APR 25	0 B ON MAR 1	11 500	1968
1969	---	7.14 ON MAY 7	0 ON JUL 1	5 440	1969
1970	---	16.3 ON APR 12	0.0038 ON MAR 1	16 400	1970
1971	84.4 AT 17:00 MST ON JUL 11 *	7.22A ON APR 15	0 ON SEP 25	15 000	1971
1972	21.0 AT 17:00 MST ON MAY 18	83.4 ON JUL 11	0 B ON MAR 1	55 300	1972
1973	16.8 AT 10:00 MST ON JUN 26	17.8 ON JUN 26	---	---	1973
1974	---	14.6 ON JUN 25	0.0318 ON MAR 1	25 300	1974
1975	34.5 AT 07:30 MST ON JUN 29	48.7 ON APR 18	0.049 ON SEP 5	74 500	1975
1976	---	---	---	---	1976
1977	51.0 AT 00:30 MST ON MAY 30	30.6 ON JUN 29	0.0148 ON APR 5	21 200	1977
1978	29.2 AT 03:00 MST ON JUL 12	4.93B ON APR 7	0.0288 ON MAR 1	12 300	1978
1979	32.4 AT 00:50 MST ON JUN 15	37.9 ON MAY 29	0.0698 ON MAR 25	44 300	1977
1980	35.7 ON JUN 17	18.3 ON JUL 12	0.0318 ON MAR 1	31 900	1978
1981	7.14 AT 23:30 MST ON MAR 15	28.3 ON JUL 12	0.0118 ON MAR 3	52 500	1979
1982	31.8 AT 18:35 MST ON APR 23	23.1 R ON JUN 18	0.010RB ON MAR 3	31 900	1980
1983	31.0 AT 14:55 MST ON JUL 9	5.48B ON MAR 15	0.004 ON AUG 28	13 800	1981
1984	17.6 AT 20:55 MST ON JUN 8	31.0 B ON APR 23	0.0038 ON MAR 1	28 800	1982
1985	38.5 AT 03:25 MST ON JUN 25	23.6 R ON JUL 9	0.003 ON SEP 20	18 500	1983
1986	45.9 AT 22:57 MST ON JUL 18	15.2 R ON JUN 8	0 ON JUL 31	10 500	1984
1987	---	30.9 ON JUN 25	0.081 ON AUG 3	28 300	1985
1988	48.8 AT 08:05 MST ON JUL 7	30.6 ON JUL 19	0 ON SEP 2	36 300	1986
		5.25B ON APR 1	0 E ON OCT 29	7 410	1987
		37.5 ON JUL 7	0.0078 ON MAR 2	13 000	1988
				27 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1987

LOBSTICK RIVER NEAR STYAL - STATION NO. 07BB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	2.08	1.08	2.93	8.84	7.44	4.78	3.87	2.18	1.89	0.475	0.005	---	1955
1956	0	0	0	8.40	10.3	8.57	4.19	4.78	3.48	2.34	1.77	2.41	3.86	1956
1957	2.55	0.951	1.08	4.28	3.81	1.53	0.839	1.36	1.86	3.48	3.81	4.84	2.53	1957
1958	3.82	3.60	2.00	5.21	5.07	2.53	3.27	1.88	1.38	1.77	1.07	0.975	3.02	1958
1959	0.406	0.011	0.077	1.44	2.06	0.900	0.861	0.593	0.805	1.22	0.958	1.35	0.895	1959
1960	0.711	0.088	1.92	2.89	5.09	4.19	5.81	2.00	1.84	1.82	1.08	1.77	2.40	1960
1961	2.04	1.81	2.03	1.87	1.81	0.471	0.847	0.271	0.183	0.209	0.202	0.017	0.949	1961
1962	0	0	0	7.83	14.8	7.96	3.08	3.33	2.80	2.81	2.85	1.78	3.94	1962
1963	0.621	1.85	2.21	13.8	15.0	6.36	2.89	1.83	1.31	1.33	1.81	0.808	4.07	1963
1964	1.18	1.17	2.03	2.11	4.44	1.86	2.14	2.22	3.45	4.38	3.85	1.84	2.53	1964
1965	1.07	2.13	1.89	9.23	22.4	27.8	38.2	21.5	13.8	7.84	4.89	4.12	12.8	1965
1966	2.47	2.34	3.08	11.6	10.6	3.12	6.08	8.78	8.19	4.84	1.31	2.46	5.52	1966
1967	1.81	1.87	2.27	11.4	5.58	4.11	1.58	0.711	0.381	0.402	0.363	0.145	2.54	1967
1968	0	0.008	0.244	0.943	2.81	1.34	0.625	1.01	1.18	1.18	0.884	0.585	0.914	1968
1969	0.152	0.052	0.027	5.72	7.37	2.19	1.08	2.88	5.27	8.30	4.95	4.78	3.49	1969
1970	3.06	2.95	2.37	5.72	4.73	1.85	1.10	0.874	0.484	0.484	0.495	0.271	1.98	1970
1971	0.152	0.104	0.100	9.30	9.24	9.13	30.5	17.4	10.2	6.88	5.88	3.18	8.58	1971
1972	2.66	2.19	2.34	7.83	10.7	15.1	15.5	7.79	4.32	3.63	2.88	2.43	5.47	1972
1973	1.53	1.84	1.55	4.88	8.06	5.84	4.05	4.02	3.00	2.80	2.27	2.44	3.53	1973
1974	1.10	1.28	1.68	22.8	30.7	16.1	18.0	8.36	5.41	3.81	2.71	2.48	8.59	1974
1975	1.94	1.40	1.17	3.81	6.36	3.31	7.00	3.64	3.21	2.16	1.80	2.17	3.35	1975
1976	1.86	1.41	2.52	8.28	2.70	1.73	1.43	1.42	1.80	1.73	1.47	1.85	2.19	1976
1977	1.81	2.10	1.17	4.60	14.5	14.7	8.38	7.40	8.96	9.52	5.70	3.50	6.97	1977
1978	1.88	1.76	2.85	4.60	5.80	6.10	6.71	3.81	7.33	5.85	4.48	3.85	4.58	1978
1979	2.62	1.88	4.17	8.02	10.0	9.83	13.1	7.16	4.74	4.05	2.88	2.67	5.76	1979
1980	1.93	1.88	1.46	7.54	8.82	22.9	18.5	13.4	10.4	8.38	5.84	4.77	8.80	1980
1981	1.69	1.28	2.21	4.31	5.28	11.7	6.85	3.88	1.78	1.82	1.47	1.74	3.88	1981
1982	0.851	0.841	1.03	9.55	9.68	4.71	15.2	8.85	7.23	5.77	3.03	1.73	6.06	1982
1983	2.57	1.78	1.19	5.88	2.97	2.38	10.8	4.64	3.43	3.41	3.81	2.61	3.81	1983
1984	2.43	2.29	2.83	2.80	5.84	8.23	2.13	0.926	1.88	2.87	3.48	2.56	2.98	1984
1985	2.56	1.87	1.48	12.3	8.84	5.60	2.63	1.58	4.78	5.86	5.03	4.83	4.78	1985
1986	2.81	1.77	6.39	7.78	8.14	4.34	20.0	17.7	10.0	9.69	5.87	4.21	8.36	1986
MEAN	1.62	1.43	1.75	6.84	8.46	6.84	8.08	5.32	4.27	3.78	3.83	2.35	4.54	MEAN

LOCATION - LAT 53 35 45 N, LONG 115 08 20 W
DRAINAGE AREA, 1 570 km^2
NATURAL FLOW

LOBSTICK RIVER NEAR STYAL - STATION NO. 07EB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	13.5 AT 15:40 MST ON MAY 2	13.5 ON MAY 2	0 B ON DEC 8 *	---	1955
1956	18.8 B AT 18:20 MST ON APR 15	18.7 B ON APR 15	0 B ON JAN 1	122 000	1956
1957	---	10.8 B ON NOV 23	0.0578 ON MAR 8	79 800	1957
1958	---	14.4 B ON APR 14	0.3118 ON NOV 5	95 400	1958
1959	---	4.28 ON MAY 11	0 B ON FEB 13	28 200	1959
1960	12.3 AT 09:30 MST ON JUL 4	12.1 ON JUL 4	0 B ON MAR 17	75 800	1960
1961	---	4.81 ON JUL 2	0 B ON DEC 10	29 800	1961
1962	---	19.4 ON MAY 6	0 B ON JAN 1	124 000	1962
1963	---	23.6 B ON APR 19	0.1785 ON JAN 10	128 000	1963
1964	---	15.6 ON MAY 7	0.0548 ON MAR 28	79 800	1964
1965	---	95.7 ON JUN 28 *	0.6899 ON APR 8	403 000	1965
1966	---	17.6 B ON APR 4	0.875 ON NOV 4	174 000	1966
1967	---	18.7 B ON APR 17	0.0288 ON DEC 18	80 100	1967
1968	5.54 AT 03:13 MST ON MAY 10	5.54 ON MAY 8	0 B ON JAN 1	28 900	1968
1969	---	14.8 ON SEP 8	0 B ON FEB 20	110 000	1969
1970	8.81 AT 07:25 MST ON MAY 18	7.14 ON MAY 18	0.2128 ON DEC 24	82 800	1970
1971	58.6 AT 08:00 MST ON JUL 12	57.5 ON JUL 12	0.0578 ON JAN 28	270 000	1971
1972	30.8 AT 05:00 MST ON JUN 25	29.7 ON JUN 25	1.70 B ON DEC 31	205 000	1972
1973	10.1 AT 23:30 MST ON MAY 5	9.53 ON MAY 5	1.13 B ON NOV 2	111 000	1973
1974	87.5 B AT 23:30 MST ON APR 19	72.8 ON APR 19	0.8898 ON JAN 20	302 000	1974
1975	30.0 AT 21:00 MST ON JUN 28	23.1 ON JUN 28	0.1428 ON APR 1	106 000	1975
1976	20.2 B AT 18:00 MST ON APR 7	19.2 B ON APR 7	0.5948 ON MAR 5	89 300	1976
1977	61.2 AT 09:15 MST ON MAY 29	57.2 ON MAY 29	0.7148 ON MAR 20	220 000	1977
1978	42.5 AT 15:50 MST ON JUL 11	28.7 ON JUL 11	0.8018 ON JAN 6	144 000	1978
1979	25.5 AT 15:50 MST ON JUL 2	21.0 ON JUL 3	1.55 B ON FEB 12	181 000	1979
1980	39.9 AT 11:00 MST ON JUN 5	38.7 ON JUN 6	0.6008 ON MAR 3	259 000	1980
1981	22.4 AT 13:55 MST ON JUN 2	21.8 ON JUN 2	0.7708 ON FEB 10	118 000	1981
1982	56.6 AT 03:00 MST ON JUL 5	51.3 ON JUL 5	0.4218 ON JAN 12	191 000	1982
1983	28.4 AT 10:10 MST ON JUL 9	24.4 ON JUL 9	0.7009 ON MAR 20	120 000	1983
1984	10.3 AT 22:05 MST ON JUN 1	8.20 ON JUN 9	0.301 ON SEP 2	93 700	1984
1985	18.5 AT 03:15 MST ON JUN 25	18.0 B ON APR 9	0.9008 ON MAR 11	151 000	1985
1986	81.3 AT 18:25 MST ON JUL 18 *	65.3 ON JUL 18	1.12 B ON FEB 19	284 000	1986
				143 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LODGE CREEK AT HARTT'S RANCH - STATION NO. 11AB007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	0.258	0.383	0.171	0	0.218	0.059	---	---	---	1911
1912	---	---	---	---	0.691	0.066	0	0	0	0	---	---	---	1912
1913	---	---	---	2.47	0.341	0.025	0.007	0	0	0	---	---	0.400	1913
1914	---	---	---	1.14	0.081	0.024	0	0	0	0.035	---	---	0.180	1914
1915	---	---	---	1.15	0.078	---	---	---	---	---	---	---	---	1915
MEAN	---	---	---	1.59	0.289	0.120	0.045	0	0.055	0.024	---	---	0.290	MEAN

LOCATION - LAT 49 27 30 N, LONG 110 30 00 W DRAINAGE AREA, 183 km^2, REGULATED

LODGE CREEK AT HESTER'S RANCH - STATION NO. 11AB023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	0	0	---	---	---	1912
1913	---	---	---	---	0.403	0.033	0.082	0	0	0	---	---	---	1913
1914	---	---	---	1.75	0.124	0.032	0.001	0	0	0.108	---	---	---	1914
MEAN	---	---	---	1.75	0.264	0.033	0.032	0	0	0.036	---	---	---	MEAN

LOCATION - LAT 49 16 30 N, LONG 110 01 00 W DRAINAGE AREA, 586 km^2, REGULATED

LOVETT RIVER NEAR THE MOUTH - STATION NO. 07BA003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	---	0.215	1.25	0.853	1.12	0.525	0.604	0.238	---	---	0.748	1975
1976	---	---	---	0.588	0.743	1.52	1.05	0.771	0.725	0.468	---	---	0.873	1976
1977	---	---	0.088	0.340	3.10	2.88	2.11	1.98	1.98	0.858	---	---	2.11	1977
1978	---	---	---	---	2.80	2.55	2.83	1.20	1.07	0.815	---	---	2.01	1978
1979	---	---	---	---	1.78	1.33	0.731	0.494	0.536	0.328	---	---	0.884	1979
1980	---	---	---	---	1.93	10.5	3.95	1.48	1.72	0.902	---	---	2.32	1980
1981	---	---	---	---	1.09	1.38	3.39	1.58	0.855	0.481	---	---	1.25	1981
1982	---	---	---	---	1.45	1.19	8.01	1.34	0.963	1.28	---	---	2.05	1982
1983	---	---	---	---	1.07	1.55	1.31	0.582	0.367	0.317	---	---	0.884	1983
1984	---	---	---	---	1.01	1.57	0.857	0.392	0.858	0.933	---	---	0.900	1984
1985	---	---	---	---	0.986	1.62	0.837	1.90	2.46	1.15	---	---	1.67	1985
1986	---	---	---	---	1.81	1.38	8.92	1.53	1.13	1.58	---	---	2.40	1986
1987	---	---	---	---	0.611	0.838	0.807	3.55	1.06	0.751	---	---	1.24	1987
1988	---	---	---	---	0.485	1.31	0.767	0.733	0.479	0.370	---	---	0.883	1988
MEAN	---	---	0.088	0.380	1.42	2.16	2.17	1.29	1.16	0.728	---	---	1.48	MEAN

LOCATION - LAT 52 59 50 N, LONG 118 39 20 W. DRAINAGE AREA, 101 km². NATURAL FLOW

LOVETT RIVER NEAR THE MOUTH - STATION NO. 07BA003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	3.348 AT 01:00 MST ON MAY 10	2.78 ON JUN 29	0.1848 ON OCT 24	11 800	1975
1976	---	2.84 ON JUN 24	0.3038 ON OCT 24	13 900	1976
1977	8.15 AT 01:00 MST ON JUN 1	8.13 ON JUN 1	0.136 ON MAY 1 *	33 800	1977
1978	14.0 AT 22:15 MST ON MAY 15	10.4 R ON JUL 12	0.550E ON OCT 31	31 900	1978
1979	---	2.80E ON MAY 24	0.240 ON OCT 5	13 700	1979
1980	73.0	61.4 E ON JUN 4 *	0.550E ON OCT 29	51 100	1980
1981	8.83 AT 09:00 MST ON JUL 30	8.01 ON JUL 30	0.263 ON MAY 4	19 800	1981
1982	28.0 AT 13:45 MST ON JUL 5	26.6 ON JUL 5	0.855 ON SEP 24	32 600	1982
1983	4.19 AT 20:50 MST ON JUN 24	3.74 ON JUN 21	0.302 ON OCT 13	13 700	1983
1984	2.87 AT 17:00 MST ON JUN 6	2.55 ON JUN 8	0.268 ON AUG 28	14 300	1984
1985	8.84 AT 09:40 MST ON SEP 13	7.71 ON SEP 13	0.474 ON MAY 23	23 400	1985
1986	51.5 AT 02:26 MST ON JUL 18	40.6 ON JUL 18	0.480 ON MAY 2	38 100	1986
1987	25.4 AT 03:36 MST ON AUG 2	17.8 ON AUG 2	0.328 ON MAY 8	19 800	1987
1988	8.39 AT 06:31 MST ON JUN 9	4.87 ON JUN 9	0.3498 ON OCT 29	10 900	1988
				23 500	MEAN

R - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
N - REVISED SINCE JAN 01 1987

MALIGNE RIVER NEAR JASPER - STATION NO. 07AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1916	---	---	---	---	---	---	60.9	45.3	41.5	18.8	---	---	---	1916
1917	---	---	---	---	10.9	33.3	40.6	38.4	16.7	---	---	---	---	1917
1918	---	---	---	---	10.3	33.5	57.6	74.8	33.0	---	---	---	---	1918
1919	---	---	---	---	---	---	---	44.1	43.2	---	---	---	---	1919
1920	---	---	---	---	---	---	---	---	32.5	---	---	---	---	1920
1972	---	---	---	---	---	---	---	---	---	11.6	6.06	3.76	---	1972
1973	2.82	2.58	2.18	2.46	13.1	35.6	40.3	38.1	18.4	8.06	5.84	4.57	14.4	1973
1974	3.83	3.06	3.34	2.77	7.13	30.6	58.3	44.2	36.9	14.6	7.86	4.86	18.4	1974
1975	3.06	2.60	2.08	3.26	7.61	30.0	43.8	41.4	20.3	8.38	7.87	4.57	14.8	1975
1976	3.10	2.72	2.17	2.71	15.8	28.0	41.2	41.8	39.8	14.4	5.60	3.88	16.9	1976
1977	3.14	2.35	1.98	3.42	14.6	41.1	48.2	43.1	28.3	11.3	5.82	4.33	17.0	1977
1978	3.19	2.85	2.12	2.55	---	---	---	---	43.9	20.8	7.75	4.78	---	1978
1979	3.08	2.78	2.51	2.58	8.20	37.3	41.8	30.4	18.4	8.89	4.87	3.89	13.8	1979
1980	2.88	2.35	2.32	4.26	28.8	41.3	37.5	28.8	18.8	12.2	5.20	4.88	15.4	1980
1981	3.83	2.27	1.82	2.25	14.3	32.9	33.3	37.2	22.8	10.0	5.39	3.93	14.2	1981
1982	3.02	2.38	1.93	1.88	8.83	37.7	62.1	45.0	39.3	13.6	6.12	4.12	16.8	1982
1983	3.18	2.73	2.83	2.75	7.28	34.7	38.2	25.0	16.1	9.58	7.40	4.08	12.8	1983
1984	3.08	2.83	2.18	2.83	4.29	33.4	43.1	43.0	26.6	14.8	8.39	3.87	15.3	1984
1985	3.14	2.70	2.18	2.43	14.5	37.3	42.1	27.2	16.7	9.55	5.01	3.81	14.2	1985
1986	2.85	3.07	2.22	2.17	10.1	45.4	52.5	43.4	33.9	12.8	8.33	3.86	18.2	1986
1987	2.83	2.22	2.23	2.54	16.0	37.4	33.1	41.1	19.8	8.54	5.04	3.22	14.7	1987
1988	2.31	2.22	2.21	4.08	15.4	33.6	37.2	29.4	17.8	10.2	5.91	3.74	12.9	1988
MEAN	3.08	2.80	2.19	2.73	13.0	39.5	44.8	35.9	27.8	12.3	6.13	4.08	15.5	MEAN

LOCATION - LAT 52 55 51 N, LONG 118 01 34 W. DRAINAGE AREA, 908 km². NATURAL FLOW

MALIGNE RIVER NEAR JASPER - STATION NO. 07AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1916	---	84.3 ON JUL 16 *	---	---	1916
1917	---	---	---	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1972	---	---	---	---	1972
1973	51.0 AT 12:00 MST ON JUN 24	48.1 ON JUN 24	1.84 ON MAR 31	455 000	1973
1974	74.2 AT 08:40 MST ON JUL 19	72.8 ON JUL 19	2.10 ON MAR 28	580 000	1974
1975	49.6 AT 21:00 MST ON JUL 3	48.7 ON JUL 3	1.89 ON MAR 29	462 000	1975
1976	45.0 AT 01:00 MST ON AUG 4	44.3 ON AUG 4	1.91 ON APR 1	534 000	1976
1977	51.3 AT 17:30 MST ON JUL 29	48.7 ON JUL 9	1.78 ON MAR 14	537 000	1977
1978	---	---	2.00 ON APR 13	---	1978
1979	45.9 AT 17:00 MST ON JUL 11	44.4 ON JUL 11	2.27 ON MAR 26	438 000	1979
1980	46.8 AT 14:10 MST ON JUN 24	47.5 ON JUN 24	2.10 ON FEB 14	488 000	1980
1981	41.5 AT 15:30 MST ON JUL 22	41.4 ON JUL 22	1.74 ON MAR 20	448 000	1981
1982	93.2 AT 13:35 MST ON JUL 6 *	89.3 ON JUL 6	1.55 ON APR 7 *	593 000	1982
1983	44.0 AT 07:30 MST ON JUN 24	42.9 ON JUN 24	2.33 ON MAR 18	405 000	1983
1984	52.5 AT 17:35 MST ON JUN 29	50.5 ON JUN 29	2.05 ON APR 11	514 000	1984
1985	46.3 AT 02:00 MST ON JUL 5	45.6 ON JUL 5	1.85 ON MAR 26	447 000	1985
1986	70.6 AT 17:00 MST ON JUL 24	69.6 ON JUL 24	1.92 ON FEB 17	575 000	1986
1987	47.7 AT 02:15 MST ON AUG 5	47.3 ON AUG 5	1.90 ON FEB 25	485 000	1987
1988	38.8 AT 22:11 MST ON JUN 16	38.4 ON JUN 11	1.79 ON FEB 1	407 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		490 000	MEAN

MANATOKAN CREEK NEAR IRON RIVER - STATION NO. 05AC008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.016	0.819	0.383	0.058	0.024	0.009	0	0	---	---	0.161	1981
1982	---	---	0	0.007	0.012	0	0	0	0	0	---	---	0.002	1982
1983	---	---	0	0	0	0.001	0.021	0.020	0.004	0.001	---	---	0.008	1983
1984	---	---	0.005	0.318	0.195	0.201	0.057	0.011	0.002	0.001	---	---	0.098	1984
1985	---	---	0.004	0.005	0.257	0.105	0.007	0.001	0.001	0.001	---	---	0.052	1985
1986	---	---	0.001	0.001	0.015	0	0	0.001	0.001	0.001	---	---	0.001	1986
1987	---	---	0	0.021	0.031	0.001	0.001	0.001	0.001	0	---	---	0.007	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
MEAN	---	---	0.003	0.148	0.113	0.047	0.018	0.005	0.001	0.001	---	---	0.041	MEAN

LOCATION - LAT 54 38 59 N, LONG 116 58 13 W. DRAINAGE AREA, 449 km^2. REGULATED SINCE 1983

MANATOKAN CREEK NEAR IRON RIVER - STATION NO. 05AC008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	1.36 A ON APR 9 *	0B ON MAR 1 *	3 400	1981
1982	---	0.037RE ON APR 25	0B ON MAR 1	52.1	1982
1983	---	0.029E ON AUG 3	0B ON MAR 1	126	1983
1984	---	0.528E ON APR 12	0B ON MAR 1	3 070	1984
1985	0.514 AT 11:39 MST ON MAY 12 *	0.489 ON MAY 12	0B ON MAR 1	1 100	1985
1986	0.040 AT 19:34 MST ON MAY 5	0.039 ON MAY 5	0B ON MAR 1	27.5	1986
1987	0.055 AT 15:14 MST ON APR 22	0.054 ON APR 25	0B ON MAR 1	150	1987
1988	---	0 B ON MAR 1	0B ON MAR 1	0	1988
				886	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX). B - ICE CONDITIONS. E - ESTIMATED. * - EXTREME RECORDED FOR THE PERIOD OF RECORD. R - REVISED SINCE JAN 01 1987

MARIE CREEK BELOW ETHEL LAKE - STATION NO. 05AC901

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	0.570	0.331	0.032	0.038	0.012	0.001	---	---	---	---	1981
1982	---	---	---	0	0	0.001	0.005	0.058	0.139	0.070	---	---	0.039	1982
MEAN	---	---	---	0.285	0.161	0.017	0.022	0.035	0.070	0.070	---	---	0.039	MEAN

LOCATION - LAT 54 31 35 N, LONG 116 19 41 W. DRAINAGE AREA, 595 km^2. NATURAL FLOW.

DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

MARIE CREEK BELOW ETHEL LAKE - STATION NO. 08AC901

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.821 AT 18:42 MST ON APR 24 *	0.832 ON APR 24 *	0. ON AUG 26 *	---	1981
1982	0.248 AT 09:02 MST ON SEP 14	0.231 ON SEP 25	08 ON APR 1	720	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		720	MEAN

MARTINEAU RIVER ABOVE COLD LAKE - STATION NO. 08AF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	---	---	---	---	---	3.48	2.71	3.27	2.17	---	1981
1982	1.36	1.10	1.30	11.6	29.3	17.6	16.8	18.1	10.3	7.86	5.24	4.80	10.5	1982
1983	4.90	4.61	5.08	8.59	8.83	8.19	19.6	15.7	9.83	7.28	5.58	4.07	8.59	1983
1984	2.51	2.87	4.84	11.4	23.4	29.6	11.9	7.03	4.85	4.28	4.20	3.28	9.15	1984
1985	2.23	2.22	2.47	11.1	37.2	21.7	11.0	8.88	5.98	5.24	3.47	1.78	9.33	1985
1986	2.27	2.12	5.81	9.20	16.0	20.0	---	---	18.8	12.5	9.21	8.24	---	1986
1987	7.81	7.75	7.71	21.4	21.5	15.4	10.2	7.35	5.80	3.19	3.18	2.43	9.85	1987
1988	2.46	1.72	2.35	6.21	8.61	10.6	28.3	30.1	20.6	17.7	12.0	8.20	13.2	1988
MEAN	3.37	3.17	4.22	11.4	21.1	17.6	16.3	14.2	11.0	7.61	5.77	4.37	10.1	MEAN

LOCATION - LAT 54 41 10 N LONG 110 01 35 W DRAINAGE AREA, 5 350 km^2 NATURAL FLOW

MARTINEAU RIVER ABOVE COLD LAKE - STATION NO. 08AF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	---	---	1981
1982	75.88 AT 07:00 MST ON APR 25 *	46.88 ON APR 26	1.098 ON FEB 13 *	331 000	1982
1983	34.8 AT 12:48 MST ON JUL 26	34.8 ON JUL 26	2.558 ON DEC 30	273 000	1983
1984	50.8 AT 15:17 MST ON JUN 1	49.7 ON JUN 1	2.308 ON DEC 31	289 000	1984
1985	53.0 AT 19:47 MST ON MAY 12	51.8 ON MAY 12	1.578 ON DEC 21	294 000	1985
1986	---	---	1 888 ON FEB 22	---	1986
1987	34.78 AT 12:47 MST ON APR 15	30.7 ON APR 16	1.94 ON OCT 22	301 000	1987
1988	82.5 AT 15:54 MST ON AUG 29	81.7 ON AUG 29 *	1.238 ON FEB 4	418 000	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		318 000	MEAN

MASKWA CREEK NO. 1 ABOVE BEARHILLS LAKE - STATION NO. 05PA014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.002	0.011	0.012	---	---	---	1972
1973	---	---	0.024	0.081	0.008	0.020	0.181	0.034	0	0	---	---	0.037	1973
1974	---	---	0	3.03	0.355	0.087	0.214	0.018	0.009	0.009	---	---	0.328	1974
1975	---	---	0.003	0.325	0.185	0.025	0.004	0.010	0.007	0.005	---	---	0.068	1975
1976	---	---	0.003	0.111	0.008	0.002	0	0	0	0	---	---	0.015	1976
1977	---	---	0.002	0.027	0.055	0.028	0.005	0.004	0.006	0.004	---	---	0.017	1977
1978	---	---	0.081	0.108	0.025	0.011	0.005	0.021	0.054	0.034	---	---	0.038	1978
1979	---	---	0.185	0.171	0.039	0.011	0.010	0.012	0.007	0.004	---	---	0.055	1979
1980	---	---	0.012	0.257	0.019	0.027	0.022	0.145	0.150	0.070	---	---	0.083	1980
1981	---	---	0.391	0.082	0.032	0.011	0.006	0.115	0.011	0.012	---	---	0.056	1981
1982	---	---	0	1.14	0.128	0.191	0.158	0.004	0.007	0.011	---	---	0.201	1982
1983	---	---	0.113	0.870	0.084	0.030	0.178	0.031	0.003	0.008	---	---	0.122	1983
1984	---	---	0.027	0.037	0.010	0.013	0	0	0.019	0.018	---	---	0.015	1984
1985	---	---	0.248	0.888	0.041	0.014	0.008	0.006	0.008	0.007	---	---	0.125	1985
1986	---	---	0.147	0.032	0.070	0.017	0.052	0.031	0.007	0.010	---	---	0.048	1986
1987	---	---	0.024	0.193	0.034	0.014	0.007	0.008	0.003	0.004	---	---	0.035	1987
1988	---	---	0.004	0.023	0.014	0.015	0.018	0.010	0.010	0.008	---	---	0.012	1988
MEAN	---	---	0.078	0.388	0.089	0.033	0.058	0.028	0.021	0.013	---	---	0.081	MEAN

LOCATION - LAT 52 47 05 N LONG 113 37 48 W DRAINAGE AREA, 79.6 km^2 NATURAL FLOW

MASKWA CREEK NO. 1 ABOVE BEARHILLS LAKE - STATION NO. 05FA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---		---	1972
1973	---	2.88 ON JUL 1	0 B ON JUL 12 *	---	1973
1974	---	8.10 ON APR 20 *	0 B ON MAR 1	791	1974
			0 B ON MAR 1	5 870	
1975	---				1975
1976	---	1.61 B ON APR 20	0.002 ON JUL 24	1 400	1976
1977	---	0.5078 ON APR 7	0 ON JUN 27	325	1977
1978	---	0.130 ON MAY 15	0.0018 ON MAR 1	384	1978
1979	1.288 AT 21:45 MST ON APR 18	0.2978 ON MAR 29	0 B ON MAR 1	630	1979
		0.9248 ON MAR 18	0 B ON MAR 1	1 190	
1980	1.05 AT 10:45 MST ON AUG 28				1980
1981	---	0.788 ON AUG 28	0 B ON MAR 1	1 940	1981
1982	5.45 AT 19:50 MST ON APR 21 *	1.39 B ON MAR 18	0 ON SEP 12	2 000	1982
1983	1.998 AT 08:40 MST ON APR ?	5.28 ON APR 22	0 B ON MAR 1	4 280	1983
1984	---	1.47 B ON APR 2	0 ON AUG 29	2 890	1984
		0.1138 ON MAR 30	0 B ON MAR 1	318	
1985	2.73 AT 01:45 MST ON APR 4	2.64 ON APR 4	0 ON JUL 11	2 850	1985
1986	---	0.2918 ON MAR 21	0 ON JUN 22	975	1986
1987	---	0.612 ON APR 12	0.0018 ON JUL 24	750	1987
1988	---	0.225 ON JUN 9	0 ON MAR 1	263	1988
				1 720	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER ABOVE EMBARRAS RIVER - STATION NO. 07AF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	---	---	---	---	---	---	13.5	4.50	---	1954
1955	2.58	2.72	3.28	13.8	48.4	81.0	38.8	14.3	8.40	8.18	4.20	2.87	19.8	1955
1956	2.74	2.18	3.30	11.0	33.4	33.9	17.8	15.5	14.6	8.40	5.11	4.20	13.0	1956
1957	2.44	2.49	3.79	17.0	55.6	30.4	26.2	33.9	26.2	19.2	13.9	7.38	20.0	1957
1958	5.88	4.04	3.04	23.3	52.5	89.0	53.2	8.43	8.90	5.85	3.28	1.63	19.1	1958
1959	2.89	2.30	2.55	13.1	38.8	88.3	28.5	11.3	19.2	21.8	13.1	5.92	20.5	1959
1960	4.02	2.85	3.55	8.38	38.8	81.2	43.7	14.8	8.77	7.73	4.95	3.24	18.5	1960
1961	2.30	1.50	2.88	7.21	23.8	22.3	27.3	21.6	8.89	17.1	12.1	8.05	12.8	1961
1962	2.61	2.87	4.02	30.5	58.0	43.0	43.2	25.9	23.5	12.8	10.4	3.81	21.7	1962
1963	2.35	2.43	2.91	20.5	43.4	33.5	22.7	8.21	9.30	8.86	3.81	2.32	13.2	1963
1964	2.20	2.46	2.34	5.40	54.0	82.2	33.8	15.2	59.3	31.5	11.1	5.37	25.4	1964
1965	2.26	2.82	3.15	18.5	84.0	105	87.8	23.7	85.1	25.7	10.8	7.61	35.8	1965
1966	2.80	3.57	4.13	8.94	85.5	38.7	56.9	58.0	25.5	15.9	10.7	5.64	24.6	1966
1967	3.07	2.33	3.45	7.80	45.7	85.4	30.7	10.8	4.98	4.73	3.05	2.10	15.2	1967
1968	1.45	1.13	11.7	16.2	36.4	38.2	39.2	38.4	16.5	9.81	4.83	2.95	17.7	1968
1969	2.34	1.48	3.45	22.3	28.5	25.5	87.0	105	20.4	18.3	12.4	3.64	28.0	1969
1970	1.83	2.73	3.18	7.62	40.5	44.3	13.8	8.17	8.73	4.10	2.32	1.82	11.4	1970
1971	1.80	1.86	1.67	22.6	42.0	102	78.1	14.8	11.4	12.5	8.15	3.27	24.8	1971
1972	2.47	2.23	2.37	7.73	62.5	84.7	43.2	18.3	22.8	37.4	11.0	5.80	24.8	1972
1973	4.46	3.42	3.43	14.9	64.0	48.8	21.6	13.2	8.87	10.4	5.41	4.21	18.5	1973
1974	2.71	2.88	3.18	24.3	75.1	82.4	30.4	17.1	18.7	11.8	8.28	3.82	20.8	1974
1975	2.00	1.83	1.48	4.32	28.7	30.0	24.3	8.09	8.98	4.84	2.78	2.49	8.93	1975
1976	1.81	1.88	1.67	14.9	32.2	28.5	18.7	48.7	17.2	8.84	5.03	4.05	15.3	1976
1977	2.18	2.48	1.83	8.18	88.5	81.0	46.3	43.8	48.4	26.1	9.98	4.49	28.3	1977
1978	3.01	2.63	2.70	18.4	52.4	71.2	48.3	21.6	42.4	19.2	8.13	4.56	24.8	1978
1979	1.78	1.92	4.19	8.86	40.7	40.1	24.8	14.0	7.42	8.82	3.84	2.61	13.2	1979
1980	1.80	2.08	2.04	21.2	31.8	203	80.2	28.0	34.8	17.8	12.8	8.88	35.0	1980
1981	3.57	2.84	3.85	8.32	38.8	33.1	37.5	30.4	14.3	10.4	7.51	2.18	15.8	1981
1982	1.32	1.28	1.52	4.63	48.3	46.2	111	35.2	28.8	39.8	12.8	5.11	28.2	1982
1983	3.61	2.74	3.80	14.3	28.1	34.9	38.5	8.84	8.12	8.08	6.83	2.49	12.8	1983
1984	2.38	2.17	2.83	14.8	38.0	43.0	13.7	8.37	28.7	30.7	9.24	4.05	15.4	1984
1985	3.78	1.78	3.33	11.0	24.0	36.0	18.8	36.8	44.0	21.1	11.4	5.07	18.1	1985
1986	4.51	2.88	4.14	10.3	41.8	30.8	107	26.3	23.9	40.1	8.87	5.72	25.8	1986
1987	3.08	3.41	2.88	7.27	14.8	12.8	18.6	80.3	17.2	8.28	6.38	2.88	14.7	1987
1988	1.70	2.59	3.55	12.8	13.8	30.2	11.7	15.2	8.32	8.57	4.38	2.83	9.78	1988
MEAN	2.70	2.41	3.24	13.8	43.8	55.8	40.3	25.8	21.1	15.8	7.87	4.10	19.8	MEAN

LOCATION - LAT 53 28 12 N, LONG 116 37 45 W
DRAINAGE AREA, 2 560 km^2
NATURAL FLOW

MCLEOD RIVER ABOVE EMBARRAS RIVER - STATION NO. 07AF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	250 AT 16:30 MST ON JUN 1	247 ON JUN 1	1.44 B ON JAN 2	526 000	1955
1956	---	88.6 ON JUN 6	1.81 B ON MAR 16	410 000	1956
1957	133 AT 15:00 MST ON MAY 1	131 ON MAY 2	1.84 B ON JAN 26	432 000	1957
1958	418 AT 11:30 MST ON JUN 28	371 ON JUN 29	1.10 B ON DEC 7	805 000	1958
1959	288 AT 14:30 MST ON JUN 27	287 ON JUN 27	1.02 B ON FEB 24	648 000	1959
1960	325 AT 16:00 MST ON JUN 26	284 ON JUN 25	2.21 B ON FEB 1	685 000	1960
1961	134 AT 20:00 MST ON JUL 30	118 ON JUL 30	1.18 B ON FEB 19	408 000	1961
1962	---	114 ON MAY 20	1.22 B ON MAR 3	384 000	1962
1963	---	77.3 ON APR 30	1.75 B ON JAN 15	417 000	1963
1964	---	214 ON JUN 19	1.86 B ON JAN 15	805 000	1964
1965	---	413 ON JUN 1	1.88 B ON JAN 11	1 130 000	1965
1966	---	250 ON MAY 11	2.76 B ON JAN 13	783 000	1966
1967	---	170 ON JUN 10	1.82 B ON JAN 28	611 000	1967
1968	---	80.1 ON JUL 23	0.4818 ON JAN 31 *	591 000	1968
1969	---	905 ON AUG 8	1.33 B ON FEB 8	830 000	1969
1970	---	176 ON JUN 17	1.84 B ON JAN 15	355 000	1970
1971	---	270 ON JUN 10	1.38 ON JAN 15	781 000	1971
1972	---	345 ON JUN 25	2.15 B ON FEB 24	768 000	1972
1973	---	150 ON MAY 28	1.53 B ON NOV 3	585 000	1973
1974	103 AT 17:40 MST ON MAY 11	100 ON MAY 11	2.44 B ON DEC 31	858 000	1974
1975	88.5 AT 21:30 MST ON JUN 29	81.4 ON JUN 30	1.01 B ON NOV 20	313 000	1975
1976	114 AT 13:00 MST ON AUG 17	108 ON AUG 17	1.47 B ON MAR 7	482 000	1976
1977	213 AT 10:50 MST ON MAY 30	187 ON MAY 30	1.44 B ON JAN 8	853 000	1977
1978	235 AT 12:30 MST ON JUL 12	188 ON JUL 12	1.85 B ON MAR 8	763 000	1978
1979	102 AT 15:40 MST ON MAY 27	85.0 ON MAY 27	1.10 B ON JAN 19	416 000	1979
1980	1 260 AT 09:25 MST ON JUN 5 *	1 130 ON JUN 5 *	1.32 B ON JAN 10	1 110 000	1980
1981	133 AT 02:30 MST ON JUL 31	122 ON JUL 31	1.81 B ON DEC 31	502 000	1981
1982	484 AT 20:05 MST ON JUL 5	359 ON JUL 5	1.18 B ON FEB 25	889 000	1982
1983	109 AT 13:00 MST ON JUN 25	104 ON JUN 25	1.72 B ON DEC 31	408 000	1983
1984	86.7 AT 16:15 MST ON JUN 9	82.7 ON JUN 9	1.81 B ON FEB 17	487 000	1984
1985	138 AT 02:15 MST ON SEP 14	117 ON SEP 14	1.33 B ON FEB 15	572 000	1985
1986	634 AT 20:33 MST ON JUL 18	502 ON JUL 18	1.87 B ON FEB 11	611 000	1986
1987	475 AT 19:45 MST ON AUG 2	358 ON AUG 2	2.13 B ON DEC 15	484 000	1987
1988	88.9 AT 23:15 MST ON JUN 8	80.7 ON JUN 11	1.46 B ON JAN 20	309 000	1988
				575 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER NEAR CADOMIN - STATION NO. 07AF013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	3.18	14.0	4.87	2.11	3.87	5.30	---	---	---	1984
1985	---	---	1.51	1.86	5.47	9.13	5.02	8.08	8.93	3.71	---	---	5.55	1985
1986	---	---	0.988	1.49	8.90	10.8	18.6	5.73	4.33	7.12	---	---	7.40	1986
1987	---	---	0.588	1.02	4.07	4.38	5.27	17.3	3.58	1.58	---	---	4.78	1987
1988	---	---	0.442	2.31	4.83	7.11	3.72	5.24	2.81	2.79	---	---	3.50	1988
MEAN	---	---	0.885	1.62	5.45	9.08	7.48	7.69	4.70	4.15	---	---	5.31	MEAN

LOCATION - LAT 53 04 44 N LONG 117 11 50 W DRAINAGE AREA, 331 km^2 NATURAL FLOW

MCLEOD RIVER NEAR CADOMIN - STATION NO. 07AF013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	30.9 AT 08:30 MST ON JUN 15	28.0 ON JUN 15	---	---	1984
1985	30.7 AT 03:50 MST ON SEP 13	25.6 ON SEP 13	0.4108 ON MAR 25 *	117 000	1985
1986	70.8 AT 22:51 MST ON JUL 17 *	62.6 ON JUL 18 *	0.4718 ON MAR 5	187 000	1986
1987	67.4 AT 23:38 MST ON AUG 1	60.4 ON AUG 2	0.4848 ON MAR 4	101 000	1987
1988	28.2 AT 04:51 MST ON JUN 8	18.3 ON JUN 8	0.4158 ON MAR 8	74 000	1988
				112 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER NEAR EDSON - STATION NO. 07AG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	---	---	---	---	---	---	33.0	8.43	---	1954
1955	5.54	5.88	4.35	31.6	82.9	122	58.1	28.1	13.3	13.5	6.66	6.32	32.4	1955
1956	5.43	4.33	4.80	29.0	60.5	69.8	38.4	24.7	21.7	9.83	11.7	7.19	21.8	1956
1957	4.87	5.27	5.10	38.8	92.3	86.3	51.6	58.1	46.1	---	---	---	---	1957
MEAN	5.18	5.83	4.82	31.1	78.2	82.8	48.4	36.8	26.7	11.7	13.8	7.31	27.2	MEAN

LOCATION - LAT 53 35 00 N LONG 116 20 00 W DRAINAGE AREA, 5 490 km^2 NATURAL FLOW

MCLEOD RIVER NEAR EDSON - STATION NO. 07AG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	385 ON JUN 2 *	2.898 ON JAN 1 *	1 020 000	1955
1956	---	304 ON JUN 6	3.518 ON FEB 25	891 000	1956
1957	---	176 ON MAY 3	---	---	1957
				856 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER NEAR ROSEVEAR - STATION NO. 07AG007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	---	---	---	73.1	23.2	11.1	73.1	53.7	17.1	9.15	---	1984
1985	7.85	8.26	8.84	50.8	47.6	64.0	35.0	61.3	88.7	47.4	18.5	13.2	37.3	1985
1986	8.84	8.45	10.3	23.0	107	88.7	288	52.0	49.9	84.6	25.2	14.4	82.5	1986
1987	10.0	9.17	8.50	26.9	35.2	24.2	27.4	123	28.8	16.4	10.9	8.21	27.4	1987
1988	4.98	5.00	10.9	32.5	22.3	62.1	29.5	25.0	16.2	16.4	8.44	5.83	19.9	1988
MEAN	8.17	7.22	9.14	33.3	53.0	58.4	82.2	54.5	51.3	44.1	16.0	9.76	36.6	MEAN

LOCATION - LAT 53 41 49 N, LONG 116 08 42 W DRAINAGE AREA, 7 150 km^2, NATURAL FLOW

MCLEOD RIVER NEAR ROSEVEAR - STATION NO. 07AG007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	212 AT 04:35 MST ON MAY 18	201 ON MAY 18	---	---	1984
1985	288 AT 11:45 MST ON SEP 14	282 ON SEP 14	5.528 ON FEB 8	1 180 000	1985
1986	2 300 AT 23:45 MST ON JUL 18 *	1 780 ON JUL 19 *	6.438 ON JAN 25	1 970 000	1986
1987	835 AT 02:20 MST ON AUG 3	810 ON AUG 3	5.308 ON DEC 4	884 000	1987
1988	195 AT 21:28 MST ON JUN 13	172 ON JUN 13	3.568 ON FEB 8 *	630 000	1988
				1 180 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER NEAR WHITECOURT - STATION NO. 07AG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	70.8	81.4	79.0	38.7	21.0	11.8	8.54	---	1968
1969	4.35	2.30	2.83	41.2	83.3	38.8	118	214	55.1	38.9	17.4	10.8	71.8	1969
1970	6.55	5.87	7.54	28.1	105	87.8	46.4	28.0	14.8	10.5	---	---	41.8	1970
1971	---	---	8.81	88.0	111	288	304	38.4	28.5	43.8	---	---	111	1971
1972	---	---	4.85	27.2	181	248	108	44.0	44.5	79.0	---	---	93.0	1972
1973	---	---	11.0	81.0	170	93.8	42.7	40.9	24.0	31.6	---	---	61.8	1973
1974	---	---	7.91	108	211	78.8	78.9	35.6	32.6	33.4	---	---	71.2	1974
1975	---	---	3.58	19.8	72.0	80.7	83.7	19.9	15.6	10.8	---	---	33.2	1975
1976	---	---	5.32	59.8	82.3	47.6	40.9	88.9	34.1	16.5	---	---	43.1	1976
1977	---	---	7.08	31.0	246	131	87.3	86.4	136	87.7	---	---	100	1977
1978	---	---	12.8	56.0	128	173	114	46.9	100	46.3	---	---	83.8	1978
1979	---	---	13.8	34.4	110	102	87.3	34.1	16.6	16.4	---	---	51.7	1979
1980	---	---	5.30	75.8	73.1	443	157	89.6	82.1	43.4	---	---	119	1980
1981	---	---	13.4	33.3	84.6	81.4	85.3	56.9	22.4	16.9	---	---	46.6	1981
1982	---	---	5.22	24.8	118	78.3	313	81.7	89.5	60.3	---	---	86.9	1982
1983	---	---	7.77	41.1	54.8	82.8	117	24.8	15.9	13.8	---	---	42.2	1983
1984	---	---	8.46	36.9	83.4	78.9	23.2	14.9	77.2	58.9	---	---	47.7	1984
1985	---	---	10.8	82.1	84.1	77.7	48.5	84.7	104	52.8	---	---	58.7	1985
1986	---	---	14.7	58.9	127	71.1	311	83.2	81.3	105	---	---	101	1986
1987	---	---	9.87	48.4	38.8	26.9	28.4	132	33.3	18.2	---	---	42.2	1987
1988	---	---	11.5	35.1	25.9	88.2	37.1	27.9	16.7	16.8	---	---	28.7	1988
MEAN	5.48	4.08	8.80	48.4	105	114	107	81.9	48.5	38.7	14.7	10.2	67.3	MEAN

LOCATION - LAT 54 00 48 N, LONG 115 50 18 W DRAINAGE AREA, 8 100 km^2, NATURAL FLOW

MCLEOD RIVER NEAR WHITECOURT - STATION NO. 07AG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	140 ON AUG 8	---	---	1968
1969	---	1 430E ON AUG 7	2.278 ON MAR 1 *	1 520 000	1969
1970	518 AT 18:00 MST ON JUN 17	371 ON JUN 18	5.088 ON MAR 1	887 000	1970
1971	888 AT 03:00 MST ON JUL 13	858 ON JUL 12	5.838 ON MAR 12	2 340 000	1971
1972	1 450A AT 01:00 MST ON JUN 27	1 290A ON JUN 27	4.598 ON MAR 19	1 950 000	1972
1973	292 AT 16:00 MST ON MAY 28	280 ON MAY 29	10.5 B ON MAR 1	1 310 000	1973
1974	388 AT 12:30 MST ON MAY 12	379 ON MAY 12	7.468 ON MAR 12	1 510 000	1974
1975	250 AT 15:00 MST ON JUN 30	229 ON JUN 30	3.238 ON MAR 5	704 000	1975
1976	203 AT 11:00 MST ON AUG 18	195 ON AUG 19	4.988 ON MAR 1	912 000	1976
1977	697 AT 00:30 MST ON MAY 31	608 ON MAY 31	6.288 ON MAR 22	2 120 000	1977
1978	---	388 ON JUN 19	5.508 ON MAR 3	1 780 000	1978
1979	227 AT 15:45 MST ON JUL 13	215 ON JUL 14	5.408 ON MAR 1	1 090 000	1979
1980	1 940 AT 10:35 MST ON JUN 6	1 780 ON JUN 6 *	5.568 ON MAR 5	2 520 000	1980
1981	---	215E ON AUG 1	5.608 ON MAR 9	989 000	1981
1982	1 230 AT 18:15 MST ON JUL 6	1 170 ON JUL 8	4.208 ON MAR 1	2 050 000	1982
1983	284 AT 08:35 MST ON JUL 4	269 ON JUL 4	7.258 ON MAR 29	894 000	1983
1984	238 AT 17:40 MST ON MAY 18	218 ON MAY 18	5.678 ON MAR 1	1 010 000	1984
1985	370 AT 15:45 MST ON SEP 14	315 ON SEP 15	5.318 ON MAR 14	1 240 000	1985
1986	2 020 AT 17:45 MST ON JUL 18 *	1 650E ON JUL 19	9.498 ON MAR 8	2 140 000	1986
1987	670 AT 12:34 MST ON AUG 3	593 ON AUG 3	8.728 ON MAR 9	883 000	1987
1988	210 AT 08:36 MST ON JUN 13	200 ON JUN 13	5.028 ON MAR 1	630 000	1988
				1 420 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MCLEOD RIVER NEAR WOLF CREEK - STATION NO. 07AG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	211	80.7	17.7	20.8	16.2	10.3	5.48	---	1914
1915	3.41	3.08	3.70	15.7	32.0	204	275	52.2	30.1	29.7	13.8	4.61	55.0	1915
1916	2.66	2.07	8.20	28.3	41.5	88.8	87.3	48.5	38.8	28.5	15.2	7.48	32.8	1916
1917	5.04	3.03	2.44	23.5	208	121	46.7	28.1	37.4	29.3	15.6	12.2	44.8	1917
1918	12.7	10.9	5.21	84.5	80.7	88.2	67.5	28.4	19.3	12.8	9.18	8.52	32.7	1918
1919	4.46	3.16	2.26	16.0	19.5	34.2	17.8	18.8	75.5	22.4	11.4	5.48	19.4	1919
1920	7.11	4.03	4.08	11.1	181	124	58.0	39.0	31.5	21.2	10.0	4.78	42.3	1920
1921	2.78	2.82	4.11	58.0	148	83.0	30.3	25.0	18.1	13.0	8.47	4.18	31.8	1921
1922	1.82	0.892	1.12	34.6	113	30.8	27.0	15.8	12.5	9.27	5.23	2.10	21.6	1922
1923	1.11	0.227	0.263	20.4	28.3	125	52.6	84.7	29.4	24.5	12.6	---	---	1923
1924	---	---	---	16.9	111	88.3	38.9	57.7	81.0	35.2	---	---	---	1924
1925	---	---	5.67	77.8	41.5	112	33.3	141	138	---	---	---	---	1925
1926	---	---	15.7	84.8	25.7	48.3	28.6	28.6	188	108	---	---	---	1926
1927	---	---	4.72	46.5	111	131	124	55.8	88.3	34.8	---	---	---	1927
1928	---	---	---	---	---	---	---	45.8	24.6	20.8	---	---	---	1928
1929	---	---	11.2	29.7	76.0	58.7	34.4	16.4	22.3	32.7	---	---	---	1929
1930	---	---	4.52	88.2	84.0	89.0	52.3	21.8	18.2	17.0	12.4	6.28	---	1930
1931	2.74	2.60	2.98	18.2	41.3	---	---	---	---	---	---	---	---	1931
1954	---	---	---	---	---	---	---	---	---	---	---	---	---	1954
1957	---	---	---	---	---	---	---	---	---	---	---	---	---	1957
1958	9.85	9.85	8.48	48.8	107	102	138	25.2	14.1	36.0	24.1	15.3	---	1958
1959	3.80	4.16	5.83	28.0	84.8	144	51.6	21.1	33.3	9.85	5.88	3.28	40.3	1959
1960	7.97	7.02	8.88	23.8	101	132	88.8	21.2	17.5	41.3	21.8	12.7	38.0	1960
1961	5.73	4.45	5.17	19.0	87.8	32.4	44.6	38.1	14.0	18.8	8.15	8.70	38.6	1961
1962	5.54	7.85	8.16	63.8	103	80.8	86.1	42.8	47.3	37.0	31.4	11.0	35.1	1962
1963	4.77	3.82	3.27	78.7	88.8	48.7	31.1	13.8	18.6	28.0	20.8	8.47	38.3	1963
1964	2.88	3.25	3.41	8.52	114	125	48.3	40.2	124	11.8	6.73	4.20	27.0	1964
1965	6.22	5.81	7.58	28.7	140	203	238	48.3	112	82.8	17.8	8.48	45.8	1965
1966	6.37	5.74	5.48	45.1	134	83.5	117	141	61.7	47.2	18.7	11.8	72.2	1966
1967	6.00	5.81	6.31	13.8	82.8	138	35.3	24.7	8.37	38.8	21.8	8.83	84.7	1967
1968	3.82	5.34	17.1	33.4	84.8	81.8	80.8	74.8	32.1	10.1	7.23	4.02	29.8	1968
1969	---	---	5.98	38.8	80.7	38.2	118	178	44.4	18.3	12.0	8.83	32.8	1969
1970	---	---	8.88	23.1	88.0	78.3	31.8	17.8	11.2	35.1	---	---	---	1970
1971	4.10	4.88	5.08	83.1	78.8	211	211	33.3	25.8	8.24	4.80	4.85	---	1971
1972	8.53	8.88	5.84	24.0	154	213	77.3	34.2	38.8	21.3	18.7	8.77	58.1	1972
1973	8.88	8.24	8.31	60.2	158	77.8	35.3	32.1	18.5	68.8	22.8	14.1	58.4	1973
1974	8.71	8.71	8.38	75.8	178	70.2	87.8	31.8	28.8	22.3	12.8	8.08	37.8	1974
										18.8	8.50	6.78	41.8	
1975	4.73	3.88	3.87	15.4	87.7	48.8	45.8	14.8	11.7	8.81	5.30	5.30	18.0	1975
1976	5.30	4.82	4.88	40.3	44.8	81.0	31.7	25.4	27.4	15.8	8.44	5.88	25.5	1976
1977	4.12	5.34	4.80	20.3	202	101	70.8	81.8	108	82.0	10.8	8.14	88.3	1977
1978	7.20	5.38	7.81	44.8	111	142	81.4	38.8	78.8	38.0	15.0	10.8	48.3	1978
1979	4.41	5.00	8.81	26.7	74.8	88.4	88.8	26.8	12.4	14.1	8.84	5.77	28.3	1979
1980	5.21	5.00	4.52	48.8	84.0	400	130	88.8	73.1	33.0	18.8	12.8	70.8	1980
1981	8.88	4.82	10.1	24.8	76.8	82.7	81.8	42.0	18.0	13.8	11.4	8.13	27.8	1981
1982	2.31	2.80	3.83	13.7	82.4	73.3	281	88.3	86.0	84.8	21.8	11.2	88.8	1982
1983	7.33	8.17	7.48	33.4	48.8	88.3	78.8	17.8	12.8	12.8	11.8	8.47	24.8	1983
1984	4.31	4.14	8.88	---	---	---	---	---	---	---	---	---	---	1984
MEAN	5.33	4.83	8.10	38.0	82.8	108	78.8	45.8	43.4	28.7	13.2	7.78	38.8	MEAN

LOCATION - LAT 53 38 15 N, LONG 116 16 50 W
DRAINAGE AREA, 8 310 km^2
NATURAL FLOW

MCLEOD RIVER NEAR WOLF CREEK - STATION NO. 07AG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	583 ON JUN 9	---	---	1914
1915	---				1915
1916	---	954 ON JUN 27	2.25 B ON FEB 18	1 780 000	1916
1917	---	294 ON JUL 5	1.70 B ON MAR 2	1 040 000	1917
1918	---	470 ON MAY 22	2.12 B ON FEB 21	1 410 000	1918
1919	---	210 ON MAY 31	3.81 B ON NOV 28	1 030 000	1919
		317 ON SEP 6	1.59 B ON MAR 16	812 000	
1920	---				1920
1921	---	487 ON MAY 8	2.13 B ON DEC 28	1 340 000	1921
1922	---	284 ON MAY 15	1.80 B ON FEB 15	896 000	1922
1923	---	248 ON MAY 2	0.5868 ON FEB 17	681 000	1923
1924	---	255 ON JUN 26	0.0958 ON MAR 3 *	---	1924
		203 ON MAY 4	---	---	
1925	---				1925
1926	---	518 ON AUG 17	---	---	1926
1927	---	326 ON SEP 6	---	---	1927
1928	---	283 B ON APR 28	---	---	1928
1929	---	521 ON JUL 5	---	---	1929
		136 ON MAY 17	---	---	
1930	---				1930
1931	---	191 ON JUN 1	---	---	1931
		83.1 ON MAY 8	1.50 B ON MAR 11	---	
1954	2 270 ON JUN 8 *	---	---	---	1954
1957	---	---	---	---	1957
1958	895A AT 17:00 MST ON JUN 28	880 A ON JUN 30	2.38 B ON NOV 26	1 270 000	1958
1959	419 AT 02:00 MST ON JUN 28	374 ON JUN 28	1.70 B ON FEB 22	1 140 000	1959
1960	473 AT 19:00 MST ON JUN 28	408 ON JUN 27	2.37 B ON MAR 21	1 180 000	1960
1961	188 AT 04:00 MST ON JUL 31	186 ON JUL 31	3.40 B ON MAR 18	792 000	1961
1962	287 AT 18:00 MST ON MAY 20	241 ON MAY 21	4.25 B ON JAN 26	1 210 000	1962
1963	---	272 ON APR 27	2.27 B ON MAR 22	851 000	1963
1964	388 AT 02:00 MST ON MAY 8	371 ON MAY 8	2.46 B ON FEB 3	1 440 000	1964
1965	954 AT 11:00 MST ON JUN 1	838 ON JUN 1	4.13 B ON APR 3	2 280 000	1965
1966	569 AT 12:00 MST ON MAY 11	481 ON JUL 5	5.10 B ON FEB 14	1 730 000	1966
1967	284 AT 15:00 MST ON JUN 10	276 ON JUN 10	3.08 B ON DEC 14	831 000	1967
1968	133 AT 10:34 MST ON AUG 7	129 ON AUG 7	1.70 B ON FEB 16	1 040 000	1968
1969	2 020 AT 02:02 MST ON AUG 7	1 400 ON AUG 7	---	---	1969
1970	428 AT 07:30 MST ON JUN 17	388 ON JUN 17	---	---	1970
1971	623 AT 18:30 MST ON JUL 12	617 ON JUL 12	3.34 B ON JAN 23	1 630 000	1971
1972	1 180 AT 17:00 MST ON JUN 28	1 040 ON JUN 28	5.38 B ON FEB 4	1 750 000	1972
1973	331 AT 23:40 MST ON MAY 28	292 ON MAY 28	7.83 B ON JAN 25	1 180 000	1973
1974	340 AT 22:50 MST ON MAY 11	328 ON MAY 13	4.84 B ON JAN 26	1 310 000	1974
1975	180 AT 03:00 MST ON JUN 30	177 ON JUN 30	3.57 B ON MAR 30	598 000	1975
1976	198 AT 21:10 MST ON AUG 17	175 ON AUG 16	3.87 B ON DEC 4	808 000	1976
1977	861 AT 14:30 MST ON MAY 30	818 ON MAY 30	3.40 B ON JAN 10	1 730 000	1977
1978	374 AT 20:20 MST ON JUL 12	314 ON JUN 19	4.19 B ON FEB 13	1 550 000	1978
1979	154 AT 05:20 MST ON JUL 13	151 ON JUL 13	2.90 B ON JAN 22	831 000	1979
1980	1 980 AT 18:15 MST ON JUN 5	1 710 ON JUN 5 *	4.16 B ON MAR 6	2 230 000	1980
1981	182 AT 07:20 MST ON JUL 31	179 ON JUL 31	3.27 B ON DEC 31	888 000	1981
1982	1 100 AT 03:35 MST ON JUL 6	988 ON JUL 6	2.08 B ON JAN 6	1 760 000	1982
1983	210 AT 04:00 MST ON JUL 4	198 ON JUL 4	3.70 B ON DEC 29	763 000	1983
1984	---	---	---	---	1984
				1 250 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MIDDLE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 11AB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1910	---	---	---	---	---	---	0.012	0.007	0.007	0.006	0.006	0.005	---	1910
1911	---	---	---	0.528	0.032	0.137	0.144	0.042	0.238	0.024	---	---	---	1911
1912	---	---	---	---	0.328	0.034	0.020	0.013	0.015	0.017	---	---	---	1912
1913	---	---	---	1.38	0.092	0.039	0.018	0.013	0.008	0.008	---	---	---	1913
1914	---	---	---	1.04	0.031	0.014	0.018	0.010	0.008	0.015	---	---	---	1914
1948	---	---	---	---	---	---	---	---	---	0.004	0.006	---	---	1948
1950	---	---	0	0.544	0.015	0.006	0.005	0.006	0.006	0.007	0.008	---	0.072	1950
1951	---	---	0	2.82	1.49	0.057	0.015	0.116	0.056	0.020	---	---	0.581	1951
1952	---	---	0.062	8.34	0.281	0.030	0.022	0.019	0.017	0.012	---	---	1.20	1952
1953	---	---	0.013	0.736	1.31	1.28	0.083	0.112	0.036	0.017	---	---	0.446	1953
1954	---	---	0.016	0.830	0.193	0.057	0.027	0.016	0.018	0.032	---	---	0.148	1954
1955	---	---	0.120	5.47	1.26	0.058	0.482	0.111	0.030	0.028	---	---	0.932	1955
1956	---	---	0.034	0.967	0.388	0.100	0.075	0.024	0.020	0.018	---	---	0.201	1956
1957	---	---	0.026	2.28	0.591	0.041	0.023	0.015	0.010	0.011	---	---	0.370	1957
1958	---	---	0.282	1.61	0.037	0.011	0.008	0.012	0.009	0.008	---	---	0.241	1958
1959	---	---	0.824	1.18	0.078	0.025	0.028	0.017	0.013	0.012	---	---	0.243	1959
1960	---	---	2.10	0.659	0.282	0.053	0.027	0.015	0.012	0.010	---	---	0.388	1960
1961	---	---	0.026	0.011	0.011	0.008	0.004	0.003	0.005	0.005	---	---	0.008	1961
1962	---	---	0.143	0.051	0.015	0.020	0.012	0.002	0	0.002	---	---	0.031	1962
1963	---	---	0.072	0.084	0.013	0.007	0.584	0.008	0.006	0.006	---	---	0.093	1963
1964	---	---	0.033	0.380	0.281	0.019	0.010	0.007	0.011	0.011	---	---	0.091	1964
1965	---	---	0.014	5.21	0.541	1.10	0.387	0.050	0.061	0.087	---	---	0.813	1965
1966	---	---	2.05	0.888	0.158	0.052	0.039	0.031	0.027	0.027	---	---	0.412	1966
1967	---	---	0.017	0.890	3.88	0.242	0.054	0.040	0.030	0.034	---	---	0.612	1967
1968	---	---	0.273	0.083	0.049	0.035	0.022	0.021	0.018	0.018	---	---	0.063	1968
1969	---	---	0.015	2.19	0.041	0.031	0.027	0.022	0.016	0.015	---	---	0.286	1969
1970	---	---	0.018	2.83	1.80	0.256	0.070	0.032	0.031	0.023	---	---	0.578	1970
1971	---	---	0.018	1.89	0.228	0.068	0.020	0.018	0.015	0.014	---	---	0.278	1971
1972	---	---	1.35	0.084	0.038	0.028	0.022	0.017	0.008	0.008	---	---	0.198	1972
1973	---	---	0.030	0.021	0.023	0.015	0.005	0.002	0.004	0.008	---	---	0.014	1973
1974	---	---	0.028	1.10	0.441	0.053	0.018	0.012	0.012	0.012	---	---	0.207	1974
1975	---	---	0.008	0.484	1.71	0.388	0.032	0.026	0.018	0.014	---	---	0.334	1975
1976	---	---	0.678	0.768	0.033	0.028	0.018	0.017	0.016	0.017	---	---	0.221	1976
1977	---	---	0.014	0.012	0.007	0.007	0.005	0.001	0.003	0.008	---	---	0.007	1977
1978	---	---	0.012	1.08	0.288	0.032	0.020	0.012	0.014	0.019	---	---	0.180	1978
1979	---	---	1.31	2.28	0.328	0.048	0.030	0.022	0.018	0.015	---	---	0.500	1979
1980	---	---	0.024	0.041	0.012	0.012	0.004	0.004	0.004	0.008	---	---	0.013	1980
1981	---	---	0.016	0.007	0.011	0.004	0.002	0.002	0.002	0.002	---	---	0.005	1981
1982	---	---	0	0.877	0.472	0.850	0.019	0.011	0.010	0.012	---	---	0.253	1982
1983	---	---	0.008	0.007	0.078	0.010	0.005	0.004	0.004	0.008	---	---	0.015	1983
1984	---	---	0.011	0.010	0.008	0.005	0.001	0.001	0.002	0.002	---	---	0.005	1984
1985	---	---	0.189	1.58	0.328	0.023	0.014	0.007	0.007	0.004	---	---	0.276	1985
1986	---	0.711	1.88	0.051	0.233	0.021	0.018	0.012	0.701	0.037	---	---	0.387	1986
1987	---	0.027	1.74	0.928	0.038	0.023	0.020	0.013	0.013	0.020	---	---	0.348	1987
1988	---	---	0.018	0.181	0.017	0.008	0.004	0.003	0.002	0.003	---	---	0.030	1988
MEAN	---	0.388	0.344	1.28	0.401	0.125	0.058	0.022	0.038	0.018	0.007	0.005	0.288	MEAN

LOCATION - LAT 49 25 39 N, LONG 110 03 08 W DRAINAGE AREA, 305 km² REGULATED INTERNATIONAL GAUGING STATION

MIETTE RIVER NEAR JASPER - STATION NO. 07AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	43.8	34.1	11.3	8.90	6.70	3.44	1.11	---	1914
1915	0.876	0.686	0.882	4.03	19.5	28.4	23.9	14.4	6.87	4.35	2.61	1.26	8.97	1915
1916	0.843	0.767	0.946	3.66	11.3	44.3	38.8	20.1	13.2	7.86	3.35	1.61	12.2	1916
1917	0.986	1.13	0.940	1.53	14.8	36.9	31.4	10.8	7.22	11.2	5.33	3.74	10.5	1917
1918	1.74	1.48	1.24	4.20	14.6	50.2	38.5	14.2	7.67	5.08	2.86	1.84	12.0	1918
1919	1.02	0.842	0.867	2.73	15.7	34.8	37.3	15.7	9.27	3.38	2.03	0.776	10.5	1919
1920	0.731	0.888	0.908	0.639	8.17	38.7	51.8	28.8	14.1	9.59	3.05	1.88	14.0	1920
1921	1.74	1.24	0.924	---	---	---	---	---	---	---	---	---	---	1921
1973	---	---	---	---	---	---	23.8	11.8	5.44	5.10	---	---	---	1973
1974	---	---	---	2.07	10.5	55.1	38.2	14.7	8.54	7.07	---	---	---	1974
1975	---	---	---	---	10.1	33.3	28.7	14.8	7.31	4.85	5.49	2.18	---	1975
1976	1.38	1.17	1.11	2.21	23.6	34.9	38.5	26.6	13.3	8.33	2.13	1.85	12.8	1976
1977	1.14	0.883	0.909	2.14	13.9	38.4	30.4	14.9	12.8	8.39	2.36	1.38	10.4	1977
1978	0.847	0.681	0.827	1.72	12.2	47.5	31.7	13.6	25.4	10.1	3.41	2.03	12.5	1978
1979	0.812	0.708	0.833	1.12	10.8	43.4	28.9	10.3	5.87	3.45	0.983	1.02	8.89	1979
1980	0.854	0.611	0.518	4.12	23.8	32.8	18.6	11.1	8.87	8.47	3.21	3.41	9.43	1980
1981	2.01	0.846	0.863	1.40	23.9	25.8	24.6	11.7	7.37	3.13	1.83	1.60	8.62	1981
1982	0.893	0.733	0.852	0.848	9.80	54.8	34.8	14.9	11.8	8.28	2.01	1.58	11.6	1982
1983	1.19	0.837	0.884	1.55	15.4	27.2	19.1	8.58	6.87	3.86	2.72	1.34	7.58	1983
1984	0.985	0.878	0.860	1.87	8.15	44.8	30.8	12.0	18.7	7.34	2.20	1.28	10.4	1984
1985	0.991	0.855	0.748	1.37	23.8	32.3	18.9	8.59	8.12	4.08	1.99	1.08	8.87	1985
1986	0.718	0.823	0.741	1.18	20.7	52.6	27.7	10.5	8.04	4.21	2.08	1.28	10.7	1986
1987	0.810	0.857	0.848	2.07	28.7	40.2	18.6	17.5	8.49	3.27	2.16	1.15	9.82	1987
1988	0.747	0.782	0.747	4.28	21.2	33.8	18.2	12.2	5.81	4.23	2.78	1.44	8.80	1988
MEAN	1.02	0.824	0.782	2.23	15.0	39.7	30.1	14.2	9.73	5.84	2.81	1.83	10.5	MEAN

LOCATION - LAT 52 51 50 N, LONG 118 05 21 W DRAINAGE AREA, 830 km² NATURAL FLOW

MIETTE RIVER NEAR JASPER - STATION NO. 07AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	67.4 ON JUN 17	---	---	1914
1915	---	85.0 ON JUN 26			1915
1916	---	88.5 ON JUN 20	0.2278 ON MAR 21	283 000	1916
1917	---	88.3 ON JUN 17	0.1138 ON JAN 28 *	387 000	1917
1918	---	88.9 ON JUN 11	0.4228 ON MAR 5	330 000	1918
1919	---	70.8 ON JUN 22	0.4508 ON FEB 16	377 000	1919
			0.4598 ON MAR 12	331 000	
1920	---	94.6 ON JUL 2	0.1708 ON MAR 30	441 000	1920
1921	---	2.108 ON JAN 20	0.7838 ON FEB 23	---	1921
1973	91.7 AT 23:00 MST ON JUN 24	87.2 ON JUN 24	---	---	1973
1974	121 AT 03:00 MST ON JUN 23	114 ON JUN 23	---	---	1974
1975	52.4 AT 01:00 MST ON JUL 5	46.2 ON JUN 25	---	---	1975
1976	72.8 AT 24:00 MST ON JUN 19	67.4 ON JUN 20			1976
1977	80.7 AT 01:00 MST ON JUN 8	73.1 ON JUN 8	0.5388 ON APR 5	408 000	1977
1978	87.8 AT 23:00 MST ON JUN 5	81.8 ON JUN 6	0.5698 ON MAR 21	328 000	1978
1979	83.9 AT 23:30 MST ON JUN 4	80.3 ON JUN 5	0.4628 ON FEB 14	384 000	1979
			0.4008 ON JAN 15	284 000	
1980	48.4 AT 22:05 MST ON JUN 4	47.0 ON JUN 17	0.4008 ON JAN 30	288 000	1980
1981	88.3 AT 23:45 MST ON MAY 28	66.8 ON MAY 28	0.7058 ON FEB 12	278 000	1981
1982	86.3 AT 01:55 MST ON JUN 15	82.8 ON JUN 15	0.5808 ON MAR 30	387 000	1982
1983	88.7 AT 00:50 MST ON MAY 31	59.3 ON MAY 31	0.7508 ON DEC 28	239 000	1983
1984	123 AT 20:40 MST ON JUN 29 *	118 ON JUN 29 *	0.6508 ON MAR 1	328 000	1984
1985	79.4 AT 02:55 MST ON MAY 25	71.7 ON MAY 25	0.8048 ON MAR 28	273 000	1985
1986	116 AT 02:15 MST ON MAY 31	110 ON MAY 31	0.5368 ON FEB 19	338 000	1986
1987	77.2 AT 23:15 MST ON JUN 13	73.0 ON JUN 13	0.3208 ON FEB 23	310 000	1987
1988	86.0 AT 04:36 MST ON JUN 8	64.5 ON JUN 8	0.4238 ON JAN 10	272 000	1988
				330 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSELAKE RIVER NEAR FRANCHERE - STATION NO. 08AC006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	---	---	---	---	---	---	---	1980
1981	0	0	0.050	1.88	1.20	0.187	0.013	0.007	0.001	0.002	0.018	0.010	---	1981
1982	0	0	0	0.084	0.025	0.012	0.027	0.033	0.014	0.008	0.001	0	0.390	1982
1983	0	0	0	0.012	0.004	0.013	0.038	0.008	0.002	0.003	0.008	0.005	0.027	1983
1984	0.001	0	0.009	0.020	0.004	0.038	0.002	0.003	0.008	0.007	0.007	0.003	0.010	1984
											0.002	0.001	0.011	
1985	0	0	0	0.084	0.088	0.008	0	0	0	0	0	0	0.024	1985
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	1986
1987	0	0	0	0	0.003	0	0	0	0	0	---	---	0	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
MEAN	0	0	0.007	0.235	0.187	0.033	0.011	0.006	0.003	0.003	0.005	0.003	0.058	MEAN

LOCATION - LAT 54 19 26 N LONG 110 57 46 W DRAINAGE AREA, 1 010 km^2 NATURAL FLOW

MOOSELAKE RIVER NEAR FRANCHERE - STATION NO. 08AC006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---		---	1980
1981	2.36 AT 04:00 MST ON APR 22 *		0.025E ON OCT 26		
1982	---	2.32 ON APR 22 *	0 B ON MAR 1 *	8 280	1981
1983	---	0.2708 ON APR 26	0 B ON MAR 1	562	1982
1984	---	0.180 ON JUL 2	0 B ON MAR 1	204	1983
		0.1238 ON OCT 26	0 B ON MAR 1	226	1984
1985	0.278 AT 15:58 MST ON APR 28	0.231 ON MAY 5	0 B ON MAR 1	500	1985
1986	---	0 ON MAR 1	0 ON MAR 1	0	1986
1987	0.044 AT 17:39 MST ON MAY 17	0.012 ON MAY 17	0 B ON MAR 1	7.55	1987
1988	---	0 B ON MAR 1	0 B ON MAR 1	0	1988
				1 220	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH ANDERSON CREEK NEAR HINTON - STATION NO. 07AF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	0.130	0.063	0.118	0.230	---	---	---	1972
1973	---	---	---	---	0.531	0.182	0.068	0.070	0.035	---	---	---	---	1973
1974	---	---	---	---	0.488	0.088	0.071	0.048	---	---	---	---	---	1974
MEAN	---	---	---	---	0.500	0.134	0.090	0.058	0.077	0.230	---	---	---	MEAN

LOCATION - LAT 53 19 00 N LONG 117 24 00 W DRAINAGE AREA, 10.6 km^2 NATURAL FLOW

NORTH ANDERSON CREEK NEAR HINTON - STATION NO. 07AF009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	1.45 AT 23:30 MST ON MAY 27 *	1.18 ON MAY 28 *	---	---	1973
1974	0.778 AT 01:30 MST ON MAY 8	0.705 ON MAY 8	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

NORTH FOX CREEK NEAR MUSKEG - STATION NO. 07AC002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.140	0.120	---	---	---	---	1972
1973	---	---	---	---	0.280	0.253	0.213	0.133	0.083	---	---	---	---	1973
1974	---	---	---	---	0.211	0.148	0.125	0.102	---	---	---	---	---	1974
MEAN	---	---	---	---	0.248	0.201	0.169	0.125	0.102	---	---	---	---	MEAN

LOCATION - LAT 53 43 00 N, LONG 118 16 00 W DRAINAGE AREA, 17.6 km^2, NATURAL FLOW

NORTH FOX CREEK NEAR MUSKEG - STATION NO. 07AC002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	0.8088 AT 01:00 MST ON MAY 6 *	0.681 ON JUN 24 *	---	---	1973
1974	0.435 AT 05:30 MST ON JUL 12	0.371 ON JUL 12	---	---	1974
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NOSE CREEK NEAR THE MOUTH - STATION NO. 05BN801

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	0.442	0.200	0.227	0.203	---	---	---	1980
1981	---	---	---	0.178	1.34	0.646	1.18	0.280	0.253	0.234	---	---	0.881	1981
1982	---	---	---	---	0.700	0.611	0.778	0.311	0.468	0.181	---	---	0.508	1982
1983	---	---	---	---	0.278	---	---	---	---	---	---	---	---	1983
1984	---	---	---	---	---	0.720	0.152	0.140	0.750	0.178	---	---	---	1984
1985	---	---	---	---	0.236	0.288	0.373	---	---	---	---	---	---	1985
1986	---	---	---	0.238	1.39	0.868	1.62	0.330	2.16	0.904	---	---	1.16	1986
1987	---	---	---	0.738	0.288	---	---	0.848	0.357	0.361	---	---	---	1987
1988	---	---	0.548	0.524	0.393	0.585	0.278	1.68	0.283	0.236	---	---	0.578	1988
MEAN	---	---	0.548	0.419	0.661	0.586	0.671	0.540	0.642	0.328	---	---	0.725	MEAN

LOCATION - LAT 51 03 00 N, LONG 114 01 00 W DRAINAGE AREA, 988 km^2, NATURAL FLOW

DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

NOSE CREEK NEAR THE MOUTH - STATION NO. 05BN801

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---	---	---	1980
1981	18.7 AT 20:30 MST ON JUL 14	7.88 ON MAY 7	0.070 ON AUG 26	10 400	1981
1982	20.6 AT 01:40 MST ON JUN 30	8.10 ON JUN 30	0.120 ON SEP 26	8 090	1982
1983	---	---	---	---	1983
1984	14.8 AT 03:30 MST ON MAY 27	8.02 ON JUN 8	---	---	1984
1985	---	---	---	---	1985
1986	24.8 AT 13:00 MST ON SEP 25	15.8 ON JUL 17 *	0.101 ON MAY 2	18 400	1986
1987	---	---	---	---	1987
1988	32.5 AT 19:46 MST ON AUG 16 *	12.8 ON AUG 1	0.024 ON JUL 13 *	9 190	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		11 500	MEAN

OLDMAN CREEK NEAR HINTON - STATION NO. 07AD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	0.071	0.072	0.083	0.181	---	---	---	1972
1973	---	---	---	---	0.542	0.222	0.075	0.084	0.048	---	---	---	---	1973
1974	---	---	---	0.109	0.845	0.083	0.080	0.080	---	---	---	---	---	1974
MEAN	---	---	---	0.109	0.544	0.143	0.075	0.082	0.064	0.181	---	---	---	MEAN

LOCATION - LAT 53 32 00 N, LONG 117 41 00 W DRAINAGE AREA, 18.1 km^2, NATURAL FLOW

OLDMAN CREEK NEAR HINTON - STATION NO. 07AD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	...	...	...	...	1972
1973	3.20 AT 20:30 MST ON JUN 24 *	1.66 ON MAY 14 *	---	---	1973
1974	1.66 AT 21:00 MST ON MAY 6	1.16 ON MAY 7	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD	---	---	MEAN

PADDLE RIVER AT BARRHEAD - STATION NO. 07BB006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	1.68	0.354	0.935	---	---	---	1972
1973	---	---	0.615	8.72	7.30	7.69	3.88	2.65	2.07	3.28	---	---	4.49	1973
1974	---	---	0.203	57.7	48.4	4.48	16.7	2.10	0.815	0.830	---	---	21.3	1974
1975	---	---	0.178	13.0	8.18	2.59	8.74	3.50	4.73	0.776	---	---	5.18	1975
1976	---	---	1.76	16.2	2.42	1.77	2.03	2.83	3.37	0.835	---	---	3.44	1976
1977	---	---	0.780	12.9	17.2	19.9	9.44	8.79	3.08	2.82	---	---	9.05	1977
1978	---	---	5.14	13.1	6.07	6.15	4.86	3.21	8.83	2.17	---	---	6.65	1978
1979	---	---	10.6	23.0	22.3	14.6	25.2	3.97	0.804	0.506	---	---	12.5	1979
1980	---	---	0.284	22.5	3.05	22.1	5.88	4.11	3.63	1.50	---	---	7.78	1980
1981	---	---	8.37	11.6	4.59	6.43	1.80	1.98	0.185	0.186	---	---	4.34	1981
1982	---	---	0.068	23.5	18.6	1.29	8.88	1.80	1.87	0.595	---	---	7.16	1982
1983	---	---	0.143	8.16	1.62	3.51	12.3	0.314	0.100	0.259	---	---	3.29	1983
1984	---	---	1.51	2.51	1.87	5.87	0.540	0.124	1.27	1.44	---	---	1.89	1984
1985	---	---	3.48	18.3	4.17	8.51	2.67	1.06	4.88	1.58	---	---	5.35	1985
1986	---	---	12.9	19.6	10.9	4.22	12.8	1.88	2.46	3.28	---	---	8.81	1986
1987	---	---	0.036	9.06	1.35	0.511	0.358	0.411	0.156	0.086	---	---	1.83	1987
1988	---	---	0.212	0.345	0.186	2.18	12.9	0.635	0.384	0.128	---	---	2.12	1988
MEAN	---	---	2.82	18.6	8.86	7.01	8.43	2.18	2.33	1.21	---	---	6.87	MEAN

LOCATION - LAT 54 05 45 N, LONG 114 23 55 W. DRAINAGE AREA, 2 360 km^2. REGULATED SINCE 1984

PADDLE RIVER AT BARRHEAD - STATION NO. 07BB006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	...	...	...	...	1972
1973	22.9 AT 19:00 MST ON JUN 30	23.8 ON JUN 30	0.1708 ON MAR 1	85 200	1973
1974	385 AT 22:30 MST ON APR 21 *	351 ON APR 21 *	0.1428 ON MAR 17	451 000	1974
1975	...	38.28 ON APR 20	0.1138 ON MAR 22	110 000	1975
1976	28.3 AT 22:00 MST ON APR 8	26.2 ON APR 9	0.078 ON JUL 30	81 300	1976
1977	86.0 AT 13:00 MST ON JUN 4	67.7 ON JUN 4	0.187 ON JUL 3	182 000	1977
1978	45.98 AT 15:40 MST ON APR 4	37.7 ON JUL 15	0.1108 ON MAR 1	141 000	1978
1979	84.0 AT 04:25 MST ON APR 30	83.8 ON APR 30	0.1158 ON MAR 4	284 000	1979
1980	48.6 AT 20:15 MST ON JUN 28	48.4 ON JUN 28	0.0848 ON MAR 2	185 000	1980
1981	42.4 AT 16:40 MST ON JUN 3	40.6 ON JUN 3	0.052 ON SEP 24	92 000	1981
1982	85.6 AT 14:25 MST ON APR 23	82.2 ON APR 26	0.0808 ON MAR 1	151 000	1982
1983	46.0 AT 18:25 MST ON JUL 11	46.6 ON JUL 11	0.023 ON AUG 18	69 600	1983
1984	26.9 AT 18:45 MST ON JUN 10	24.1 ON JUN 10	0.026 ON AUG 16	40 000	1984
1985	57.2 AT 16:15 MST ON JUN 27	55.9 ON JUN 27	0.103 ON JUN 18	113 000	1985
1986	89.0 AT 03:07 MST ON JUL 22	66.0 ON JUL 21	0.205 ON AUG 17	182 000	1986
1987	---	32.48 ON APR 4	0.004 ON JUL 18 *	32 300	1987
1988	42.8 AT 03:40 MST ON JUL 8	38.4 ON JUL 8	0.0068 ON MAR 1	44 900	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		139 000	MEAN

PADDLE RIVER NEAR ANSELMO - STATION NO. 07BB011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.183	2.83	0.788	7.18	1.35	1.10	0.318	0.287	---	---	1.73	1980
1981	---	---	0.807	1.87	1.83	3.00	0.812	0.338	0.093	0.112	---	---	1.05	1981
1982	---	---	0.088	3.48	2.21	0.822	3.88	0.865	0.883	0.475	---	---	1.45	1982
1983	---	---	0.082	1.80	0.844	1.44	3.58	0.081	0.088	0.308	---	---	0.883	1983
1984	---	---	0.301	0.782	1.43	2.05	0.302	0.208	1.03	0.488	---	---	0.807	1984
1985	---	---	1.05	3.44	1.03	2.78	0.388	0.330	3.52	0.823	---	---	1.85	1985
1986	---	---	1.14	3.89	2.51	1.08	4.71	0.187	0.488	0.778	---	---	1.81	1986
1987	---	---	0.328	1.31	1.10	0.348	0.048	0.326	0.153	0.158	---	---	0.470	1987
1988	---	---	0.188	0.307	0.190	1.07	2.87	0.312	0.174	0.178	---	---	0.883	1988
MEAN	---	---	0.473	1.86	1.30	2.18	1.86	0.428	0.728	0.403	---	---	1.18	MEAN

LOCATION - LAT 53 51 28 N, LONG 118 21 45 W. DRAINAGE AREA, 281 km^2. NATURAL FLOW

PADDLE RIVER NEAR ANSELMO - STATION NO. 07BB011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	25.8 AT 05:50 MST ON JUN 17	20.6 ON JUN 25	0.089 ON SEP 27	38 800	1980
1981	34.2 AT 09:20 MST ON JUN 1	31.7 ON JUN 1	0.014 ON SEP 13	22 300	1981
1982	20.6 AT 16:25 MST ON JUL 15	17.1 ON JUL 5	0.0328 ON MAR 1	30 700	1982
1983	22.0 AT 08:00 MST ON JUL 9	18.9 ON JUL 9	0.029 ON AUG 29	30 400	1983
1984	17.1 AT 20:50 MST ON JUN 8	15.0 ON JUN 8	0.0788 ON MAR 15	17 100	1984
1985	32.7 AT 05:20 MST ON JUN 25	29.0 ON JUN 25	0.138 ON JUL 7	34 800	1985
1986	110 ON JUL 19 *	46.6 A ON JUL 18 *	0.084 ON AUG 28	38 400	1986
1987	---	3.328 ON MAR 31	0.004 ON JUL 20 *	9 850	1987
1988	47.7 AT 08:20 MST ON JUL 7	35.2 A ON JUL 7	0.106 ON SEP 9	14 000	1988
				24 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PADDLE RIVER NEAR ROCHFORT BRIDGE - STATION NO. 07BB004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.145	18.7	3.74	0.532	0.734	0.025	0.010	0.028	---	---	2.70	1963
1964	---	---	0.228	2.54	2.04	0.287	0.827	1.23	1.78	0.798	---	---	1.23	1964
1965	---	---	0.115	17.2	6.85	18.3	7.11	0.501	0.988	0.528	---	---	5.78	1965
1966	---	---	1.31	10.0	2.71	0.954	0.578	0.507	0.317	0.298	---	---	2.07	1966
1967	---	---	0.031	3.48	4.54	1.45	0.057	0.027	0.003	0.006	---	---	1.20	1967
1968	---	---	2.44	0.885	1.54	0.287	0.035	0.257	0.126	0.120	---	---	0.728	1968
1969	---	---	0.085	10.7	1.70	0.430	0.508	1.94	2.78	1.10	---	---	2.37	1969
1970	---	---	0.410	6.00	1.85	0.575	4.24	0.887	0.123	0.189	---	---	1.77	1970
1971	---	---	0.208	13.1	2.11	9.11	20.0	0.583	0.321	0.383	---	---	5.71	1971
1972	---	---	1.14	8.84	7.05	7.44	0.850	0.424	0.147	---	---	---	---	1972
1973	---	---	0.802	4.12	3.74	4.48	0.937	1.81	1.12	0.902	---	---	2.19	1973
1974	---	---	0.121	28.1	10.2	0.985	8.88	0.286	0.398	0.481	---	---	5.90	1974
1975	---	---	0.127	4.20	3.68	3.67	2.22	2.06	0.888	0.304	---	---	2.17	1975
1976	---	---	0.882	8.75	0.849	0.800	0.500	1.37	1.09	0.253	---	---	1.38	1976
1977	---	---	0.173	5.36	14.7	2.97	3.59	1.29	1.85	1.23	---	---	3.81	1977
1978	---	---	2.88	3.82	3.48	3.24	5.45	1.26	5.01	0.984	---	---	3.27	1978
	---	---	2.99	7.77	7.45	8.51	7.74	0.415	0.273	0.567	---	---	4.21	1979
1980	---	---	0.106	6.82	1.23	14.9	2.36	2.09	1.73	0.585	---	---	3.88	1980
1981	---	---	3.80	2.44	2.53	5.28	1.75	0.815	0.181	0.231	---	---	2.11	1981
1982	---	---	0.122	8.08	4.70	0.249	5.99	1.21	1.00	0.378	---	---	2.83	1982
1983	---	---	0.088	3.42	1.06	2.98	8.85	0.225	0.081	0.314	---	---	1.89	1983
1984	---	---	0.814	1.09	1.51	3.02	0.137	0.022	1.24	1.03	---	---	1.10	1984
1985	---	---	1.28	5.05	1.88	4.32	1.27	0.420	2.85	0.388	---	---	2.18	1985
1986	---	---	1.78	8.74	4.74	3.82	7.58	1.32	1.57	2.40	---	---	3.74	1986
1987	---	---	0.006	0.179	0.021	0.831	0.459	0.122	0.091	0.195	---	---	0.217	1987
1988	---	---	0.013	0.001	0.088	1.31	7.32	0.144	0.151	0.085	---	---	1.14	1988
MEAN	---	---	0.831	7.04	3.78	3.84	3.70	0.817	1.02	0.550	---	---	2.88	MEAN

LOCATION - LAT 53 53 44 N LONG 115 02 27 W DRAINAGE AREA, 825 km^2 REGULATED SINCE 1984

PADDLE RIVER NEAR ROCHFORT BRIDGE - STATION NO. 07BB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	54.7 ON APR 16	50.7 ON APR 16	0.006 ON SEP 9	57 100	1963
1964	---	14.0 ON MAY 7	0.042 ON JUL 13	28 000	1964
1965	---	132 ON JUN 28 *	0.0148 ON MAR 11	143 000	1965
1966	---	30.6 B ON APR 3	0.0578 ON MAR 1	43 800	1966
1967	---	9.03 ON MAY 8	0 ON SEP 17 *	25 300	1967
1968	---	11.8 ON MAY 7	0.008 ON JUL 17	15 400	1968
1969	---	39.6 B ON APR 11	0 ON JUL 22	50 200	1969
1970	---	20.1 ON JUL 18	0 B ON MAR 1	37 400	1970
1971	76.8 AT 09:00 MST ON JUL 12	73.6 ON JUL 12	0.170 ON SEP 7	121 000	1971
1972	---	36.8 ON JUN 26	---	---	1972
1973	---	31.1 A ON JUN 25	0.204 ON AUG 2	46 300	1973
1974	81.7A AT 00:00 MST ON APR 19 *	88.1 A ON APR 19	0.088 ON AUG 18	125 000	1974
1975	40.8 AT 22:00 MST ON JUN 28	37.1 ON JUN 28	0.1278 ON MAR 1	46 000	1975
1976	---	13.5 B ON APR 7	0.0858 ON MAR 1	28 400	1976
1977	83.0 AT 23:45 MST ON MAY 29	75.3 ON MAY 30	0.1598 ON MAR 1	82 800	1977
1978	92.1 AT 11:00 MST ON JUL 11	66.0 ON JUL 11	0.1818 ON MAR 1	89 200	1978
1979	38.9 AT 04:28 MST ON APR 25	35.7 ON APR 25	0.080 ON SEP 24	89 200	1979
1980	45.4 AT 12:55 MST ON JUN 18	42.5 ON JUN 18	0.0258 ON MAR 1	77 400	1980
1981	43.2 AT 04:30 MST ON JUN 2	38.0 ON JUN 2	0.048 ON SEP 19	44 800	1981
1982	---	36.8 ON APR 25	0 ON OCT 18	58 800	1982
1983	27.9 AT 05:20 MST ON JUL 10	27.6 ON JUL 10	0.018 ON AUG 26	40 000	1983
1984	17.9 AT 01:45 MST ON JUN 10	14.1 ON JUN 10	0 B ON MAR 1	23 200	1984
1985	32.4 AT 07:55 MST ON JUN 26	31.0 ON JUN 26	0 ON MAY 18	48 100	1985
1986	47.8 AT 20:09 MST ON JUL 19	42.0 ON JUL 20	0 ON JUL 5	78 200	1986
1987	13.4 AT 12:36 MST ON MAY 28	2.868 ON APR 3	0 B ON MAR 1	4 590	1987
1988	17.6 AT 14:52 MST ON JUL 14	17.3 ON JUL 15	0 B ON MAR 3	24 200	1988
				58 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER BELOW PADDY CREEK - STATION NO. 07BA001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	16.8	19.0	19.4	8.67	8.89	---	---	---	---	---	1956
1957	---	---	---	15.1	30.0	18.7	13.4	14.4	13.8	---	---	---	---	1957
1958	---	---	2.38	19.1	47.3	28.9	34.9	8.98	5.32	4.12	---	---	18.8	1958
1959	---	---	1.33	7.43	21.9	51.6	19.0	7.88	9.55	11.2	---	---	16.1	1959
1960	---	---	3.20	14.5	40.4	32.1	34.4	7.19	8.75	9.17	---	---	18.0	1960
1961	---	---	2.06	3.78	21.4	9.70	17.8	14.2	4.23	5.70	---	---	9.82	1961
1962	---	---	1.61	25.1	31.3	18.9	24.4	18.6	21.8	8.82	---	---	15.0	1962
1963	---	---	2.70	48.2	46.3	18.1	8.83	4.89	6.01	2.85	---	---	17.4	1963
1964	---	---	1.83	5.88	50.8	33.9	28.8	18.8	83.8	28.8	---	---	27.2	1964
1965	---	---	2.42	25.2	62.0	88.8	118	16.7	34.8	18.1	---	---	48.8	1965
1966	---	---	1.93	10.3	36.5	19.7	40.8	70.4	21.0	13.8	---	---	25.9	1966
1967	---	---	1.93	11.8	36.2	34.8	11.0	8.48	3.23	3.48	---	---	13.5	1967
1968	---	---	4.52	6.58	31.9	31.8	20.8	22.2	14.8	7.49	---	---	17.4	1968
1969	---	---	1.69	22.8	30.8	17.0	89.8	73.1	26.4	20.5	---	---	30.3	1969
1970	---	---	2.77	7.87	28.5	33.8	14.1	8.18	8.10	4.14	---	---	13.2	1970
1971	---	---	1.80	25.1	28.8	75.8	82.8	12.4	7.21	8.89	---	---	31.8	1971
1972	---	---	2.82	11.7	80.5	86.1	43.8	17.1	13.2	23.7	---	---	32.2	1972
1973	---	---	3.45	28.6	68.3	28.3	16.8	30.4	9.42	8.01	---	---	22.8	1973
1974	---	---	3.00	41.8	85.7	24.4	30.8	12.7	10.8	10.2	---	---	27.4	1974
1975	---	---	1.82	8.77	24.0	18.3	23.2	7.34	8.88	3.44	---	---	11.4	1975
1976	---	---	2.47	18.8	15.5	17.2	15.1	27.0	10.8	8.88	---	---	14.0	1976
1977	---	---	2.11	8.70	88.4	42.8	22.4	28.3	36.2	16.8	---	---	30.7	1977
1978	---	---	3.49	13.8	37.0	61.7	36.4	13.0	39.3	15.4	---	---	27.4	1978
1979	---	---	3.77	8.74	38.7	24.8	14.0	8.88	4.48	5.02	---	---	13.4	1979
1980	---	---	2.08	27.3	28.8	148	88.1	30.4	34.3	14.3	---	---	44.2	1980
1981	---	---	4.04	11.3	33.1	28.7	28.8	18.8	7.33	6.81	---	---	17.1	1981
1982	---	---	1.88	8.18	31.1	21.0	120	15.8	15.4	31.7	---	---	28.8	1982
1983	---	---	2.88	12.2	19.3	22.7	43.8	8.58	4.74	4.80	---	---	14.8	1983
1984	---	---	2.87	9.88	25.8	23.4	8.98	3.48	18.8	14.2	---	---	13.1	1984
1985	---	---	2.42	23.8	20.2	18.3	8.35	18.3	38.4	18.3	---	---	18.3	1985
1986	---	---	3.82	11.8	40.8	17.8	188	26.4	21.4	38.8	---	---	43.4	1986
1987	---	---	3.18	10.1	11.7	8.88	14.3	42.8	8.80	8.48	---	---	13.2	1987
1988	---	---	2.17	11.8	8.58	18.1	18.8	18.2	8.78	7.88	---	---	11.3	1988
MEAN	---	---	2.88	18.1	35.7	34.8	37.7	18.1	18.3	11.8	---	---	23.2	MEAN

LOCATION - LAT 53 07 47 N
LONG 115 19 30 W
DRAINAGE AREA, 2 800 km²
NATURAL FLOW

PEMBINA RIVER BELOW PADDY CREEK - STATION NO. 07BA001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	---	47.88 ON APR 22	---	---	1957
1958	---	83.0 ON MAY 2	---	---	1958
1959	134 AT 11:30 MST ON JUN 26	170 E ON JUN 30	2.18 B ON MAR 22	397 000	1959
1960	114 AT 19:30 MST ON JUL 3	126 ON JUN 28	0.8238 ON MAR 1 *	342 000	1960
1961	---	112 ON JUL 3	1.42 B ON MAR 1	380 000	1961
1962	---	73.8 ON JUL 21	1.87 B ON MAR 12	210 000	1962
1963	---	60.8 ON MAY 21	1.13 B ON MAR 1	401 000	1963
1964	---	116 ON APR 30	2.07 B ON MAR 24	389 000	1964
1965	---	190 ON MAY 8	0.7858 ON MAR 21	576 000	1965
1966	---	374 ON JUN 1	1.73 B ON MAR 25	987 000	1966
1967	---	250 ON AUG 6	1.70 B ON MAR 1	571 000	1967
1968	---	83.4 ON JUN 10	1.55 B ON MAR 18	387 000	1968
1969	588 AT 13:08 MST ON AUG 7	58.9 ON AUG 1	3.26 B ON MAR 16	388 000	1969
1970	182 AT 10:34 MST ON JUN 17	495 ON AUG 7	1.42 B ON MAR 11	842 000	1970
1971	247 AT 21:00 MST ON JUL 12	188 ON JUN 17	2.27 B ON OCT 29	279 000	1971
1972	612 A AT 24:00 MST ON JUN 28	243 ON JUL 12	1.78 B ON MAR 1	887 000	1972
1973	82.8 AT 22:40 MST ON MAY 16	541 A ON JUN 26	1.80 B ON MAR 1	682 000	1973
1974	141 AT 13:30 MST ON APR 29	85.2 ON MAY 7	3.11 B ON MAR 1	477 000	1974
1975	76.2 AT 22:00 MST ON JUN 30	140 ON APR 29	2.83 B ON MAR 1	581 000	1975
1976	87.2 AT 04:00 MST ON AUG 18	74.5 ON JUN 30	1.33 B ON APR 7	241 000	1976
1977	208 AT 21:00 MST ON MAY 30	84.8 ON AUG 18	2.32 B ON MAR 1	287 000	1977
1978	135 AT 00:30 MST ON JUL 13	192 ON MAY 31	2.10 B ON MAR 10	850 000	1978
1979	68.2 AT 01:40 MST ON MAY 2	118 ON JUL 13	2.37 B ON MAR 1	579 000	1979
1980	831 ON JUN 8	51.5 ON MAY 19	2.07 B ON MAR 1	384 000	1980
1981	87.5 AT 11:50 MST ON JUL 31	589 A ON JUN 8	1.81 B ON MAR 1	934 000	1981
1982	394 AT 17:10 MST ON JUL 8	82.3 ON JUL 31	2.75 B ON MAR 1	362 000	1982
1983	83.5 AT 12:20 MST ON JUL 4	361 ON JUL 8	1.66 B ON APR 1	824 000	1983
1984	83.2 AT 08:20 MST ON MAY 18	82.8 ON JUL 4	2.52 B ON MAR 1	308 000	1984
1985	120 AT 15:50 MST ON SEP 14	81.7 ON MAY 18	1.94 B ON MAR 1	277 000	1985
1986	1 100 AT 01:10 MST ON JUL 19 *	118 ON SEP 14	1.92 B ON MAR 10	388 000	1986
1987	184 AT 03:17 MST ON AUG 3	989 A ON JUL 19 *	2.78 B ON MAR 12	820 000	1987
1988	81.4 AT 14:01 MST ON JUN 10	135 ON AUG 3	2.80 B ON MAR 10	280 000	1988
		86.4 ON JUN 10	1.47 B ON MAR 1	238 000	
				471 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR ENTWISTLE - STATION NO. 07EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	132	64.0	8.82	8.97	7.85	4.25	1.87	---	1914
1915	1.13	0.632	1.87	14.4	11.8	133	138	25.5	12.2	13.4	6.17	2.20	30.2	1915
1916	1.34	1.24	1.92	12.6	28.5	30.3	67.2	28.5	22.9	14.0	10.7	2.55	16.8	1916
1917	2.46	2.02	1.70	11.3	177	72.1	30.7	11.9	11.6	11.8	8.10	3.40	28.9	1917
1918	3.65	2.38	2.32	34.0	35.7	28.8	24.0	10.6	7.57	7.84	4.23	2.26	13.6	1918
1919	1.22	0.448	0.372	10.3	12.0	14.7	4.89	7.08	46.8	9.92	7.48	4.12	10.1	1919
1920	2.76	1.78	1.08	8.53	194	55.6	17.8	18.5	10.1	9.40	3.86	0.970	27.0	1920
1921	1.88	3.48	3.80	34.9	84.1	31.3	16.2	14.3	8.74	6.85	4.71	3.21	17.8	1921
1922	1.46	0.082	0.028	11.5	40.8	9.18	12.4	7.83	5.26	4.33	3.82	0.841	8.16	1922
1923	0.278	0.152	---	---	---	---	---	---	---	---	---	---	---	1923
1954	---	---	---	---	---	---	---	---	---	---	---	15.5	8.56	---
1954	2.22	2.68	3.35	27.8	86.7	40.3	16.6	8.52	4.49	5.23	1.93	1.15	17.1	1954
1955	1.22	2.82	2.71	27.1	28.0	27.3	13.5	12.3	8.90	4.49	2.74	2.23	10.9	1955
1956	1.61	1.67	1.35	19.4	39.6	17.8	13.4	14.6	14.1	12.9	11.0	8.46	12.8	1956
1957	2.10	3.57	7.33	33.2	43.5	28.9	38.5	8.88	4.41	3.37	2.24	1.62	15.6	1957
1958	1.07	0.822	1.93	8.37	19.5	84.2	24.7	9.40	13.8	13.4	8.21	4.18	12.1	1958
1959														1959
1960	2.89	2.68	8.43	18.7	58.2	36.2	80.1	7.21	8.43	8.32	3.19	1.37	19.7	1960
1961	1.12	1.57	1.16	8.88	25.5	10.8	13.0	17.9	6.81	6.25	4.85	1.87	7.83	1961
1962	1.88	1.50	1.82	36.1	48.8	26.3	28.8	28.1	27.0	11.8	8.48	7.60	19.7	1962
1963	2.18	1.83	2.85	58.0	87.4	23.3	13.1	5.71	5.73	4.94	2.71	1.39	15.8	1963
1964	1.83	2.13	1.84	7.08	84.7	38.3	38.3	22.0	66.4	38.8	10.2	3.86	24.7	1964
1965	1.03	2.10	2.32	48.3	80.3	132	173	14.5	27.7	14.1	8.20	3.75	42.4	1965
1966	2.20	2.97	4.40	17.7	45.7	28.0	46.5	60.8	27.1	13.9	3.94	8.61	23.2	1966
1967	3.21	2.42	2.96	12.6	52.7	45.9	10.5	8.49	4.03	4.40	3.64	1.25	12.6	1967
1968	1.04	0.947	6.26	7.85	22.9	24.8	22.0	36.7	18.7	10.9	8.27	2.89	14.4	1968
1969	1.62	0.969	1.14	34.8	30.8	17.6	70.6	88.6	34.9	27.1	11.1	8.10	27.5	1969
1970	2.48	1.86	3.11	14.4	34.1	37.8	15.2	8.85	5.84	5.30	2.32	2.02	11.1	1970
1971	1.84	2.31	2.67	45.7	36.6	80.3	148	13.8	7.84	10.5	6.80	3.17	30.8	1971
1972	2.01	1.84	2.53	22.9	88.8	121	52.6	20.0	13.9	24.4	10.5	8.91	28.6	1972
1973	4.43	3.83	3.88	38.4	82.4	34.2	24.8	25.9	12.2	10.8	8.87	3.88	21.2	1973
1974	3.14	3.43	3.63	78.8	128	38.0	49.8	15.8	11.8	10.1	8.41	2.82	29.0	1974
1975	2.53	2.79	2.62	9.73	38.9	22.8	38.2	8.27	7.93	4.72	2.32	1.89	11.9	1975
1976	2.50	2.38	2.48	26.4	20.7	18.4	16.5	35.1	12.4	8.33	3.55	3.17	12.2	1976
1977	2.64	2.20	2.13	12.8	112	61.2	26.8	28.4	28.9	20.2	8.03	4.08	28.8	1977
1978	3.22	2.83	8.01	19.3	48.2	81.3	86.3	17.8	46.4	21.0	10.1	8.88	26.5	1978
1979	2.88	2.19	7.41	27.1	61.9	33.4	24.5	11.9	8.49	7.01	3.87	3.19	18.1	1979
1980	2.73	2.37	2.36	38.2	36.8	210	88.6	36.0	41.8	20.1	8.70	5.15	41.1	1980
1981	3.88	2.88	8.86	14.4	41.6	40.0	29.1	24.4	8.97	8.07	8.00	1.85	15.7	1981
1982	1.94	1.83	2.11	18.3	47.0	27.5	175	30.8	30.4	23.6	7.41	3.49	28.4	1982
1983	3.24	2.93	3.22	21.4	24.7	23.9	88.5	8.61	8.18	4.87	4.86	2.23	14.4	1983
1984	2.18	2.56	3.70	14.3	35.8	28.4	7.85	3.50	24.8	19.3	8.38	4.49	12.9	1984
1985	2.85	2.84	4.78	48.5	28.7	23.3	12.1	19.7	51.1	22.8	7.08	4.48	19.0	1985
1986	3.21	2.89	7.85	15.8	83.8	21.8	229	34.8	23.8	45.8	13.2	8.76	38.6	1986
1987	6.74	4.37	3.86	19.7	17.4	12.8	15.8	51.8	11.4	7.21	4.34	2.38	13.1	1987
1988	1.34	1.30	4.43	14.2	7.84	21.7	38.1	22.2	11.8	8.37	3.80	2.87	11.3	1988
MEAN	2.26	2.14	2.29	23.6	52.7	48.9	47.4	20.8	17.8	12.7	6.23	3.47	19.9	MEAN

LOCATION - LAT 53 35 18 N, LONG 115 00 14 W

DRAINAGE AREA, 4 420 km²

NATURAL FLOW

PEMBINA RIVER NEAR ENTWISTLE - STATION NO. 07BB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	480 ON JUN 9	---	---	1914
1915	---	459 ON JUN 29	0.2558 B ON FEB 3	953 000	1915
1916	---	306 ON JUL 4	1.08 B ON FEB 8	895 000	1916
1917	---	379 ON MAY 19	1.55 B ON FEB 23	812 000	1917
1918	---	73.6 ON APR 17	0.8218 ON DEC 30	430 000	1918
1919	---	141 ON SEP 8	0.1428 ON MAR 8	317 000	1919
1920	---	311 E ON MAY 8	0.2838 ON DEC 28	853 000	1920
1921	---	110 ON MAY 17	0.3118 ON JAN 5	564 000	1921
1922	---	77.8 ON MAY 18	0 B ON FEB 13 *	257 000	1922
1923	---	---	0 B ON JAN 16	---	1923
1954	---	---	---	---	1954
1955	---	144 ON MAY 24	0.5958 ON DEC 29	539 000	1955
1956	---	74.98 ON APR 23	0.4818 ON JAN 5	346 000	1956
1957	---	116 ON MAY 3	0.8818 ON MAR 8	408 000	1957
1958	---	302 ON JUN 30	0.4818 ON NOV 25	493 000	1958
1959	136 AT 03:00 MST ON JUN 29	133 ON JUN 19	0.3408 ON FEB 22	413 000	1959
1960	---	152 ON JUL 3	0.5868 ON DEC 19	529 000	1960
1961	---	88.5 ON JUL 31	0.3118 ON MAR 22	280 000	1961
1962	---	88.3 ON AUG 8	1.08 B ON FEB 8	822 000	1962
1963	---	178 ON MAY 1	0.8068 ON DEC 6	498 000	1963
1964	---	238 ON MAY 8	0.8408 ON MAR 25	782 000	1964
1965	---	896 ON JUL 12	0.5388 ON MAR 6	1 340 000 *	1965
1966	268 AT 11:00 MST ON AUG 7	388 ON AUG 7	1.27 B ON JAN 27	733 000	1966
1967	88.8 AT 12:00 MST ON JUN 11	85.5 ON JUN 11	0.850 ON DEC 18	403 000	1967
1968	86.0 AT 15:11 MST ON AUG 8	84.6 ON AUG 8	0.7088 ON FEB 5	458 000	1968
1969	649 AT 05:08 MST ON AUG 8	447 ON AUG 8	0.8508 ON FEB 15	868 000	1969
1970	203 AT 01:27 MST ON JUN 18	178 ON JUN 18	1.27 B ON NOV 29	380 000	1970
1971	438 AT 18:00 MST ON JUL 11	436 ON JUL 12	1.70 B ON JAN 24	972 000	1971
1972	697 AT 17:00 MST ON JUN 27	683 ON JUN 27	1.16 B ON MAR 3	910 000	1972
1973	108 AT 02:00 MST ON MAY 8	103 ON MAY 6	2.56 B ON DEC 17	887 000	1973
1974	237 AT 03:10 MST ON APR 28	221 ON APR 28	2.36 B ON DEC 30	915 000	1974
1975	134 AT 01:00 MST ON JUL 1	133 ON JUL 1	1.37 B ON NOV 19	384 000	1975
1976	88.7 AT 01:40 MST ON AUG 18	87.5 ON AUG 18	2.12 B ON NOV 23	385 000	1976
1977	314 AT 11:20 MST ON MAY 31	306 ON MAY 31	1.74 B ON MAR 2	839 000	1977
1978	193 AT 18:30 MST ON JUL 13	183 ON JUL 13	2.10 B ON JAN 18	837 000	1978
1979	76.7 AT 23:10 MST ON MAY 3	68.6 ON MAY 12	1.36 B ON JAN 26	478 000	1979
1980	782 AT 03:50 MST ON JUN 7	715 ON JUN 8	2.10 B ON MAR 4	1 300 000	1980
1981	88.1 AT 08:25 MST ON AUG 1	83.0 ON AUG 1	1.37 B ON DEC 26	485 000	1981
1982	583 AT 04:25 MST ON JUL 7	555 ON JUL 7	1.41 B ON JAN 1	826 000	1982
1983	137 AT 20:00 MST ON JUL 8	134 ON JUL 8	2.20 B ON DEC 8	483 000	1983
1984	80.9 AT 07:40 MST ON MAY 19	74.8 ON MAY 19	1.90 B ON MAR 10	409 000	1984
1985	181 AT 03:50 MST ON SEP 15	157 ON SEP 15	2.04 B ON JAN 22	589 000	1985
1986	1 280 AT 00:40 MST ON JUL 20 *	1 180 A ON JUL 20 *	2.18 B ON FEB 17	1 220 000	1986
1987	174 AT 21:05 MST ON AUG 3	137 ON AUG 4	1.40 B ON NOV 15	412 000	1987
1988	103 AT 01:25 MST ON JUL 8	98.1 ON JUL 8	1.10 B ON JAN 14	388 000	1988
				830 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PUNK CREEK NEAR THE MOUTH - STATION NO. 05AB003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.018	0.075	0.038	0.088	0.070	0.010	0.003	0.010	---	---	0.034	1981
1982	---	---	0	0.128	0.070	0.012	0.034	0.038	0.018	0.018	---	---	0.039	1982
1983	---	---	0.002	0.047	0.021	0.034	0.347	0.048	0.003	0.012	---	---	0.061	1983
1984	---	---	0.018	0.088	0.051	0.118	0.018	0.008	0.012	0.013	---	---	0.037	1984
1985	---	---	0.018	0.181	0.318	0.318	0.101	0.054	0.041	0.030	---	---	0.118	1985
1986	---	---	0.013	0.084	0.058	0.018	0.088	0.058	0.008	0.011	---	---	0.038	1986
1987	---	---	0.010	0.183	0.070	0.070	0.010	0.008	0.008	0.008	---	---	0.048	1987
1988	---	---	0.008	0.008	0.008	0.018	0.011	0.004	0	0.001	---	---	0.008	1988
MEAN	---	---	0.010	0.084	0.080	0.088	0.070	0.028	0.012	0.013	---	---	0.048	MEAN

LOCATION - LAT 54 33 20 N, LONG 111 13 40 W
DRAINAGE AREA, 385 km^2
NATURAL FLOW

PUNK CREEK NEAR THE MOUTH - STATION NO. 05AB003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.131 AT 16:10 MST ON JUN 22	0.133 ON JUL 8	0 B ON MAR 1 *	734	1981
1982	0.7808 AT 11:00 MST ON APR 28	0.5008 ON APR 28	0 B ON MAR 1	833	1982
1983	1.11 AT 21:24 MST ON JUL 22 *	1.08 ON JUL 22 *	0 B ON MAR 1	1 080	1983
1984	0.333 AT 00:57 MST ON JUN 3	0.328 ON JUN 3	0.001 ON JUN 27	790	1984
1985	0.834 AT 20:37 MST ON MAY 8	0.828 ON MAY 8	0.0018 ON MAR 1	2 490	1985
1986	0.378 AT 23:05 MST ON JUL 19	0.335 ON JUL 19	0.0048 ON MAR 8	830	1986
1987	0.4368 AT 12:47 MST ON APR 10	0.4888 ON APR 10	0.003 ON SEP 28	882	1987
1988	0.048 AT 13:02 MST ON JUN 8	0.048 ON JUN 8	0 B ON MAR 1	130	1988
				882	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

QUIGLEY CREEK NEAR HINTON - STATION NO. 07AF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	0.150	0.080	0.161	0.285	---	---	---	1972
1973	---	---	---	---	0.881	0.227	0.085	0.048	0.031	---	---	---	---	1973
1974	---	---	---	---	0.820	0.091	0.108	0.052	---	---	---	---	---	1974
MEAN	---	---	---	---	0.838	0.159	0.107	0.083	0.091	0.285	---	---	---	MEAN

LOCATION - LAT 53 21 00 N LONG 117 24 00 W DRAINAGE AREA, 15.3 km² NATURAL FLOW

QUIGLEY CREEK NEAR HINTON - STATION NO. 07AF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	1.47 AT 22:30 MST ON MAY 27 *	1.22 ON MAY 28 *	---	---	1973
1974	1.13 AT 04:10 MST ON MAY 8	1.03 ON MAY 8	---	---	1974
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

RAT CREEK NEAR CYNTHIA - STATION NO. 07BA002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	3.78	8.33	18.5	8.02	1.88	1.78	4.70	---	---	---	1972
1973	---	---	0.228	8.78	8.82	3.14	1.78	3.27	2.02	2.03	---	---	3.87	1973
1974	---	---	0.412	11.7	18.7	3.08	6.37	1.88	1.27	1.34	---	---	5.32	1974
1975	---	---	0.487	1.14	2.83	3.01	5.85	1.01	0.884	0.880	---	---	1.84	1975
1976	---	---	0.480	4.38	1.58	1.58	2.85	0.43	1.95	0.875	---	---	2.61	1976
1977	---	---	0.308	3.27	17.8	8.58	2.94	7.05	8.03	2.88	---	---	5.99	1977
1978	---	---	0.984	2.56	5.40	13.5	4.68	1.62	5.70	2.77	---	---	4.62	1978
1979	---	---	0.735	2.81	7.17	5.66	3.58	1.21	0.489	0.772	---	---	2.80	1979
1980	---	---	0.345	4.12	4.33	21.6	11.2	4.56	5.88	2.53	---	---	5.87	1980
1981	---	---	0.848	2.18	5.37	5.32	1.81	0.992	0.431	0.588	---	---	2.18	1981
1982	---	---	0.348	2.86	4.70	3.26	30.8	1.88	2.89	2.61	---	---	8.17	1982
1983	---	---	0.300	1.76	2.88	3.68	12.0	1.38	0.775	0.818	---	---	2.82	1983
1984	---	---	0.438	1.87	8.04	3.54	0.848	0.404	4.58	2.57	---	---	2.80	1984
1985	---	---	0.237	7.84	3.82	2.33	1.14	1.72	8.87	2.50	---	---	3.30	1985
1986	---	---	0.748	1.80	8.03	2.48	---	---	---	---	---	---	---	1986
1987	---	---	0.464	2.37	2.34	1.77	1.33	5.10	1.85	0.813	---	---	1.98	1987
1988	---	---	0.518	1.10	0.380	2.70	5.44	2.82	1.73	1.54	---	---	2.17	1988
MEAN	---	---	0.490	3.72	5.37	5.98	5.31	2.70	2.88	1.85	---	---	3.87	MEAN

LOCATION - LAT 53 08 17 N LONG 115 28 17 W DRAINAGE AREA, 806 km² NATURAL FLOW

RAT CREEK NEAR CYNTHIA - STATION NO. 07BA002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	76.7 AT 20:30 MST ON JUN 28	73.3 ON JUN 28	---	---	1972
1973	18.8 AT 15:40 MST ON APR 30	18.4 ON APR 30	0.1908 ON MAR 18	82 000	1973
1974	36.5 AT 05:10 MST ON APR 29	36.2 ON APR 29	0.3698 ON MAR 13	113 000	1974
1975	25.8 AT 08:30 MST ON JUL 1	25.5 ON JUL 1	0.450 ON AUG 17	41 000	1975
1976	10.8 AT 01:35 MST ON AUG 8	10.5 ON AUG 8	0.4058 ON MAR 29	53 100	1976
1977	42.5 AT 13:45 MST ON MAY 31	41.3 ON MAY 31	0.1618 ON MAR 1	127 000	1977
1978	26.9 AT 07:20 MST ON JUN 17	26.2 ON JUN 17	0.2728 ON MAR 7	87 800	1978
1979	16.58 AT 07:00 MST ON APR 29	12.78 ON APR 29	0.3008 ON MAR 10	59 300	1979
1980	84.9 AT 16:35 MST ON JUN 8	58.8 ON JUN 7	0.3388 ON MAR 18	145 000	1980
1981	11.4 AT 15:00 MST ON JUN 2	11.2 ON JUN 2	0.188 ON SEP 18	48 200	1981
1982	111 AT 05:30 MST ON JUL 8	100 ON JUL 8 *	0.3008 ON MAR 1	131 000	1982
1983	24.1 AT 08:10 MST ON JUL 5	23.6 ON JUL 5	0.1838 ON MAR 25	81 700	1983
1984	13.1 AT 21:18 MST ON MAY 18	12.5 ON MAY 18	0.2018 ON MAR 18	52 800	1984
1985	24.5 AT 15:00 MST ON SEP 15	23.2 ON SEP 15	0.1408 ON MAR 8 *	88 900	1985
1986	580 IN JUL *	---	0.1838 ON MAR 15	---	1986
1987	15.3 AT 13:27 MST ON AUG 8	14.8 ON AUG 8	0.2508 ON MAR 29	41 500	1987
1988	19.8 AT 14:02 MST ON JUL 8	19.1 ON JUL 8	0.208 ON MAY 24	46 000	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		77 800	MEAN

REITA CREEK NEAR OUTLET OF ANGLING LAKE - STATION NO. 08AD013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.050	0.269	0.155	0.032	0.010	0.002	0.001	0	---	---	0.065	1981
1982	0	0	0	0.113	0.131	0.094	0.109	0.088	0.042	0.008	0.015	0.022	0.075	1982
1983	0.006	0	0.001	0.170	0.206	0.115	0.135	0.087	0.021	0.004	0.007	0.004	0.090	1983
1984	0	0	0.016	0.209	0.193	0.182	0.039	0.003	0.005	0.014	0.050	0.075	0.082	1984
1985	0.034	0.010	0.078	0.303	0.136	0.008	0.001	0	0.001	0.001	0.041	0.078	0.088	1985
1986	0.103	0.138	0.048	0.080	0.302	0.334	0.213	0.388	0.310	0.075	0.051	0.087	0.218	1986
1987	0.087	0.148	0.181	0.421	0.277	0.127	0.077	0.037	0.155	0.035	---	---	0.180	1987
1988	---	---	0.018	0.328	0.227	0.127	0.095	0.056	0.084	0.030	---	---	0.122	1988
MEAN	0.040	0.048	0.050	0.234	0.203	0.128	0.085	0.084	0.075	0.028	0.041	0.084	0.112	MEAN

LOCATION - LAT 54 13 45 N
LONG 110 19 45 W
DRAINAGE AREA 151 km²
NATURAL FLOW

REITA CREEK NEAR OUTLET OF ANGLING LAKE - STATION NO. 08AD013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1981	---	0.3028 ON APR 1	0 ON AUG 18 *	1 370	1981
1982	0.5808 AT 15:41 MST ON APR 21	0.4178 ON APR 20	0 B ON MAR 1	1 680	1982
1983	0.3256 AT 10:40 MST ON MAY 18	0.312 ON MAY 19	0 B ON MAR 1	1 900	1983
1984	---	0.2948 ON APR 2	0 B ON MAR 1	1 740	1984
1985	---	0.4088 ON APR 2	0 ON JUL 29	1 390	1985
1986	0.800 AT 21:20 MST ON AUG 14	0.695 ON AUG 14	0.0088 ON APR 2	4 570	1986
1987	1.58 B AT 15:43 MST ON APR 4 *	0.8088 ON APR 4 *	0.055 ON OCT 31	3 800	1987
1988	0.7838 AT 15:18 MST ON APR 2	0.5058 ON APR 3	0.0128 ON MAR 1	2 590	1988
				2 370	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ADOLPH CREEK NEAR KIMBALL - STATION NO. 05AE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	0.548	0.084	0.070	0.227	0.134	---	---	---	1911
1912	---	---	---	---	0.318	0.057	0.188	0.048	0.028	0.111	---	---	---	1912
1913	---	---	---	---	0.444	0.158	0.181	0.071	0.019	---	---	---	---	1913
1914	---	---	---	0.517	0.118	0.002	0.003	0.018	0.010	0.335	---	---	---	1914
1915	---	---	---	0.274	0.333	2.32	1.13	0.881	0.575	0.481	---	---	---	1915
1916	---	---	---	0.561	0.881	1.83	0.544	0.380	0.481	0.329	---	---	---	1916
1936	---	---	0.313	0.712	0.084	0.030	0	0.021	0.001	0.017	---	---	0.142	1936
1937	---	---	0.028	0.330	0.111	0.726	0.007	0.003	0.006	0.058	---	---	0.188	1937
1938	---	---	0.376	0.830	0.525	0.072	0.057	0.091	0.041	0.023	---	---	0.239	1938
1939	---	---	0.172	0.091	0.030	0.121	0.009	0	0.001	0.010	---	---	0.054	1939
1940	---	---	0.246	0.247	0.118	0.058	0.050	0.036	0.025	0.027	---	---	0.100	1940
1941	---	---	0.102	0.042	0.036	0.108	0.043	0.040	0.055	0.030	---	---	0.057	1941
1942	---	---	0.036	0.220	0.267	0.349	0.138	0.255	0.134	0.078	---	---	0.183	1942
1943	---	---	0.932	0.823	0.587	0.527	0.093	0.056	0.085	0.052	---	---	0.388	1943
1944	---	---	0.070	0.188	0.139	0.185	0.039	0.037	0.031	0.034	---	---	0.087	1944
1945	---	---	0.075	0.025	0.115	0.380	0.075	0.048	0.098	0.052	---	---	0.108	1945
1946	---	0.038	0.282	0.121	0.080	0.072	0.070	0.029	0.085	0.138	---	---	0.112	1946
1947	---	0.165	2.32	0.884	0.251	0.187	0.078	0.091	0.153	0.095	---	---	0.476	1947
1948	---	---	0.251	2.00	1.10	3.87	0.481	0.287	0.112	0.093	---	---	0.573	1948
1949	---	---	0.275	0.428	0.548	0.271	0.111	0.051	0.128	0.175	---	---	0.253	1949
1950	---	---	0.185	0.901	0.648	0.282	0.222	0.101	0.088	0.121	---	---	0.320	1950
1951	---	---	1.22	1.17	1.33	2.83	1.38	0.544	1.17	0.888	---	---	1.26	1951
1952	---	---	1.05	2.36	0.469	0.219	0.224	0.227	0.225	0.700	---	---	0.621	1952
1953	---	---	0.841	1.88	1.04	5.56	0.367	0.170	0.150	0.151	---	---	1.36	1953
1954	---	0.323	0.267	1.84	0.790	0.327	0.045	0.134	0.217	0.152	---	---	0.489	1954
1955	---	---	0.096	2.23	2.20	0.388	0.301	0.108	0.128	0.083	---	---	0.667	1955
1956	---	---	0.801	0.480	0.370	0.188	0.532	0.171	0.138	0.119	---	---	0.348	1956
1957	---	0.040	0.824	0.513	0.398	0.187	0.045	0.083	0.091	0.073	---	---	0.244	1957
1958	---	---	0.552	1.78	0.278	0.284	0.281	0.306	0.138	0.048	---	---	0.458	1958
1959	---	---	0.888	1.21	0.540	0.138	0.089	0.107	0.123	0.133	---	---	0.372	1959
1960	---	---	1.86	0.353	0.474	0.122	0.038	0.140	0.094	0.023	---	---	0.351	1960
1961	---	---	0.118	0.121	0.448	0.052	0.015	0.014	0.075	0.088	---	---	0.114	1961
1962	---	---	0.838	0.369	0.134	0.088	0.018	0.067	0.108	0.011	---	---	0.204	1962
1963	---	---	0.085	0.044	0.007	0.132	0.083	0.053	0.075	0.043	---	---	0.062	1963
1964	---	---	0.047	0.391	1.44	1.70	0.188	0.083	0.218	0.138	---	---	0.518	1964
1965	---	---	0.841	3.00	0.345	0.858	0.348	0.148	0.280	0.113	---	---	0.731	1965
1966	---	---	0.884	0.401	0.243	1.31	0.358	0.185	0.138	0.147	---	---	0.486	1966
1967	---	---	1.88	0.878	2.43	1.39	0.245	0.180	0.148	0.120	---	---	0.847	1967
1968	---	---	0.404	0.283	0.857	0.440	0.110	0.150	0.851	0.361	---	---	0.372	1968
1969	---	---	1.60	1.80	0.225	0.858	0.088	0.080	0.088	0.088	---	---	0.871	1969
1970	---	---	0.162	0.388	0.312	0.235	0.091	0.081	0.083	0.048	---	---	0.188	1970
1971	---	---	0.267	0.786	0.478	0.241	0.111	0.057	0.081	0.060	---	---	0.276	1971
1972	---	---	2.88	0.752	0.480	0.247	0.188	0.183	0.180	0.148	---	---	0.637	1972
1973	---	---	0.306	0.215	0.141	0.123	0.060	0.018	0.088	0.005	---	---	0.114	1973
1974	---	---	0.245	0.488	0.858	0.141	0.041	0.088	0.117	0.044	---	---	0.230	1974
1975	---	---	0	1.42	2.78	1.40	0.171	0.188	0.181	0.138	---	---	0.774	1975
1976	---	---	0.732	0.388	0.478	0.280	0.084	0.147	0.078	0.057	---	---	0.278	1976
1977	---	---	0.088	0.202	0.092	0.078	0.048	0.047	0.045	0.024	---	---	0.078	1977
1978	---	---	0.848	0.377	0.183	0.212	0.138	0.188	0.478	0.034	---	---	0.384	1978
1979	---	---	1.38	1.38	0.807	0.183	0.095	0.084	0.088	0.018	---	---	0.488	1979
1980	---	---	0.142	0.483	0.510	0.358	0.101	0.123	0.152	0.048	---	---	0.243	1980
1981	---	---	0.355	0.358	0.814	0.754	0.207	0.120	0.078	0.092	---	---	0.347	1981
1982	---	---	0.042	1.71	0.240	0.201	0.127	0.008	0	0.013	---	---	0.288	1982
1983	---	---	0.102	0.140	0.114	0.085	0.088	0.047	0.028	0.011	---	---	0.077	1983
1984	---	---	0.087	0.141	0.088	0.071	0.031	0.038	0.002	0.014	---	---	0.058	1984
1985	---	---	0.243	0.233	0.138	0.147	0.030	0.014	0.323	0.184	---	---	0.147	1985
1986	---	---	0.848	0.118	0.178	0.078	0.048	0.047	0.104	0.100	---	---	0.152	1986
1987	---	---	0.193	0.871	0.118	0.112	0.073	0.141	0.108	0.050	---	---	0.188	1987
1988	---	---	0.057	0.118	0.081	0.013	0.013	0.017	0.007	0.010	---	---	0.041	1988
MEAN	---	0.138	0.530	0.711	0.803	0.582	0.177	0.132	0.148	0.108	---	---	0.353	MEAN

LOCATION - LAT 48 07 30 N
LONG 113 08 30 W

DRAINAGE AREA 221 km²
NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1988.

ROLPH CREEK NEAR KIMBALL - STATION NO. 05AE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1911	---	---	---	---	1911
1912	---	---	---	---	1912
1913	---	---	0 ON JUL 5 *	---	1913
1914	---	---	0 ON JUL 23	---	1914
			0 ON MAY 30		
1915	---	5.95 ON JUN 26	---	---	1915
1916	---	4.56 ON JUN 30	---	---	1916
1935	6.09 B ON APR 10	3.77 B ON APR 10	0 ON JUN 25	3 020	1935
1937	---	5.61 ON JUN 13	0 B ON MAR 1	3 280	1937
1938	3.88 B ON MAR 18	2.01 ON APR 10	0 ON SEP 28	5 070	1938
1939	0.8218 AT 07:00 MST ON MAR 22	0.8778 ON MAR 24	0 B ON MAR 1	1 140	1939
1940	1.47 B AT 21:00 MST ON MAR 26	1.30 B ON MAR 26	0 B ON MAR 1	2 110	1940
1941	---	0.3408 ON MAR 8	0.008 ON JUL 22	1 200	1941
1942	1.05 AT 07:00 MST ON JUN 6	1.04 ON JUN 6	0 B ON MAR 1	3 880	1942
1943	12.7 ON MAR 28	8.89 ON MAR 28	0.0288 ON MAR 4	8 230	1943
1944	0.835 AT 19:00 MST ON APR 3	0.498 ON APR 3	0 B ON MAR 1	1 850	1944
1945	---	0.878 ON JUN 8	0 B ON MAR 1	2 280	1945
1946	0.8638 AT 18:00 MST ON MAR 12	0.7388 ON MAR 12	0.008 ON AUG 8	2 370	1946
1947	---	7.08 B ON MAR 19	0 B ON MAR 5	10 100	1947
1948	28.6 AT 20:00 MST ON JUN 17	14.8 ON JUN 17	0.0288 ON MAR 1	20 600	1948
1949	1.64 AT 18:00 MST ON MAY 23	1.61 ON MAY 23	0 B ON MAR 1	5 380	1949
1950	---	3.43 B ON APR 1	0.0288 ON MAR 1	6 780	1950
1951	20.3 AT 18:00 MST ON JUN 24	12.8 ON JUN 24	0.0148 ON MAR 1	26 700	1951
1952	---	8.27 B ON MAR 30	0.014 ON MAR 1	13 200	1952
1953	35.5 AT 18:00 MST ON JUN 3 *	27.2 E ON JUN 3 *	0.0578 ON MAR 10	28 400	1953
1954	8.17 B AT 18:00 MST ON APR 8	4.86 B ON APR 8	0 B ON MAR 1	9 830	1954
1955	14.3 AT 18:00 MST ON MAY 19	12.5 ON MAY 20	0 B ON MAR 1	14 800	1955
1956	5.04 AT 18:00 MST ON JUL 3	3.57 ON JUL 4	0 B ON MAR 1	7 380	1956
1957	1.70 B AT 18:00 MST ON MAR 13	1.44 B ON MAR 13	0.011 ON SEP 25	5 180	1957
1958	8.83 B AT 23:00 MST ON APR 1	4.47 B ON APR 1	0.0288 ON MAR 17	9 720	1958
1959	7.70 B AT 05:00 MST ON MAR 26	4.53 B ON MAR 26	0.031 ON JUL 18	7 870	1959
1960	---	9.00 B ON MAR 20	0.017 ON OCT 8	7 440	1960
1961	---	1.87 ON MAY 11	0 ON JUL 2	2 410	1961
1962	---	2.62 B ON MAR 21	0 B ON MAR 1	4 330	1962
1963	---	0.504 ON JUN 25	0 ON MAY 21	1 320	1963
1964	17.8 AT 18:00 MST ON JUN 8	7.80 ON JUN 8	0.0088 ON MAR 1	11 000	1964
1965	---	8.85 B ON APR 5	0.0318 ON MAR 18	15 500	1965
1966	---	5.78 A ON JUN 5	0.0178 ON MAR 1	9 820	1966
1967	---	9.46 B ON MAR 23	0.078 ON AUG 28	17 900	1967
1968	3.48 AT 24:00 MST ON SEP 28	3.34 ON SEP 27	0.022 ON JUL 18	7 880	1968
1969	18.1 AT 22:30 MST ON MAR 31	9.00 ON APR 1	0.028 ON OCT 30	14 200	1969
1970	2.15 AT 14:33 MST ON JUN 17	1.60 ON JUN 17	0.021 ON OCT 4	4 000	1970
1971	---	2.36 B ON MAR 30	0.0218 ON OCT 28	5 820	1971
1972	13.3 AT 07:15 MST ON MAR 15	12.8 ON MAR 15	0 B ON MAR 1	13 800	1972
1973	---	0.6548 ON MAR 1	0 ON AUG 28	2 400	1973
1974	3.51 AT 05:25 MST ON MAY 1	2.83 ON MAY 1	0 ON AUG 4	4 870	1974
1975	15.4 AT 01:30 MST ON APR 29	10.1 ON APR 29	0 B ON MAR 1	15 400	1975
1976	10.8 B AT 23:30 MST ON MAR 17	4.08 B ON MAR 17	0.0378 ON MAR 7	6 900	1976
1977	1.50 B AT 17:55 MST ON APR 3	1.13 ON APR 8	0 ON JUL 24	1 580	1977
1978	---	5.21 B ON MAR 24	0 B ON MAR 1	8 220	1978
1979	4.80 AT 00:15 MST ON APR 10	3.64 B ON MAR 15	0 B ON MAR 1	10 800	1979
1980	5.85 AT 19:40 MST ON MAY 28	4.08 ON MAY 28	0.0218 ON MAR 5	5 140	1980
1981	9.33 AT 11:05 MST ON JUN 14	5.68 ON JUN 14	0.0308 ON MAR 18	7 340	1981
1982	---	8.50 B ON APR 14	0 B ON MAR 1	6 110	1982
1983	0.222 AT 23:10 MST ON APR 29	0.217 ON APR 30	0 ON SEP 28	1 830	1983
1984	---	0.2608 ON MAR 23	0 B ON MAR 2	1 180	1984
1985	2.72 B AT 02:15 MST ON MAR 21	1.83 B ON MAR 30	0 B ON MAR 1	3 110	1985
1986	---	3.48 ON MAR 1	0.032 ON AUG 21	3 230	1986
1987	7.08 AT 00:35 MST ON APR 5	3.44 ON APR 4	0.005 ON JUL 18	3 580	1987
1988	0.2588 AT 02:24 MST ON MAR 30	0.1898 ON MAR 30	0 ON JUN 18	859	1988
				7 480	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SAKWATAMAU RIVER NEAR WHITECOURT - STATION NO. 07AH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	3.17	2.87	---	---	---	1972
1973	---	---	1.05	8.08	17.1	17.9	5.80	8.08	3.47	4.82	---	---	8.21	1973
1974	---	---	0.880	21.6	33.8	8.18	8.24	3.05	2.47	2.28	---	---	9.68	1974
1975	---	---	0.738	4.35	11.0	12.4	10.2	8.05	7.41	2.48	---	---	8.82	1975
1976	---	---	0.820	15.1	8.88	11.4	12.2	17.9	7.28	3.90	---	---	8.85	1976
1977	---	---	1.17	13.6	31.5	14.8	14.7	4.03	3.88	3.73	---	---	10.9	1977
1978	---	---	0.800	7.82	8.20	14.1	7.82	3.12	11.2	5.10	---	---	7.33	1978
1979	---	---	0.870	3.53	31.7	30.7	38.8	4.80	1.88	1.82	---	---	14.2	1979
1980	---	---	0.583	10.8	8.83	13.9	8.84	4.16	8.81	3.42	---	---	7.11	1980
1981	---	---	1.03	8.10	8.73	10.5	4.38	1.78	0.817	1.10	---	---	4.88	1981
1982	---	---	0.858	2.07	18.8	3.07	12.7	10.8	3.03	1.78	---	---	8.77	1982
1983	---	---	0.428	3.82	3.85	17.8	28.8	4.82	2.81	2.84	---	---	7.74	1983
1984	---	---	0.807	8.77	18.7	17.9	4.81	2.78	4.89	2.88	---	---	7.02	1984
1985	---	---	1.30	8.41	18.8	14.1	3.82	2.83	12.2	8.37	---	---	8.09	1985
1986	---	---	0.773	12.2	22.5	9.04	13.9	8.48	3.83	8.27	---	---	9.81	1986
1987	---	---	0.870	4.52	8.53	8.01	3.38	8.04	4.60	2.03	---	---	3.86	1987
1988	---	---	1.75	8.82	8.81	12.8	10.4	3.28	1.81	1.84	---	---	8.47	1988
MEAN	---	---	0.888	8.34	15.8	13.1	12.1	8.47	4.78	3.82	---	---	8.01	MEAN

LOCATION - LAT 54 12 05 N, LONG 115 48 40 W
DRAINAGE AREA, 1 140 km^2
NATURAL FLOW

SAKWATAMAU RIVER NEAR WHITECOURT - STATION NO. 07AH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	65.4 AT 11:00 MST ON JUN 17	51.7 ON JUN 17	0.8508 ON MAR 1	174 000	1973
1974	80.1 AT 11:40 MST ON APR 30	74.2 ON APR 27	0.7458 ON APR 10	205 000	1974
1975	101 AT 21:30 MST ON JUN 28	80.4 ON JUN 28	0.5848 ON MAR 1	144 000	1975
1976	58.3 AT 18:30 MST ON AUG 18	48.1 ON AUG 27	0.7838 ON MAR 1	204 000	1976
1977	101 AT 04:00 MST ON MAY 30	94.8 ON MAY 30	1.12 B ON MAR 10	231 000	1977
1978	87.8 AT 17:15 MST ON JUN 15	71.9 ON JUN 15	0.7458 ON MAR 3	185 000	1978
1979	---	145 E ON JUL 13 *	0.4248 ON MAR 1	301 000	1979
1980	34.5 AT 23:30 MST ON MAY 28	32.5 ON MAY 28	0.3108 ON MAR 5	151 000	1980
1981	50.1 AT 15:00 MST ON JUN 1	43.3 ON JUN 1	0.358 ON AUG 28	88 800	1981
1982	51.5 AT 18:00 MST ON AUG 4	47.9 ON AUG 4	0.3308 ON MAR 1	143 000	1982
1983	52.6 AT 15:50 MST ON JUN 26	83.6 ON JUN 26	0.2958 ON MAR 22 *	184 000	1983
1984	107 AT 07:05 MST ON JUN 8	89.2 ON JUN 8	0.4208 ON MAR 13	149 000	1984
1985	125 AT 09:45 MST ON JUN 25	108 ON JUN 25	0.7408 ON MAR 1	171 000	1985
1986	61.6 AT 02:45 MST ON JUL 19	53.2 ON JUL 19	0.6008 ON MAR 1	203 000	1986
1987	15.5 AT 02:06 MST ON AUG 22	14.0 ON AUG 22	0.8388 ON MAR 6	81 700	1987
1988	138 AT 00:42 MST ON JUL 8 *	95.2 ON JUL 7	0.4558 ON MAR 4	137 000	1988
				170 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SAND RIVER NEAR THE MOUTH - STATION NO. 08AB001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	2.71	---	---	---	---	1967
1968	---	---	---	---	---	---	---	---	---	---	---	---	---	1968
1969	---	---	1.92	36.2	28.8	3.47	2.57	4.36	---	---	---	---	---	1969
						12.8	7.80	8.78	8.57	18.8	---	---	15.2	
1970	---	---	2.45	18.3	19.4	12.8	101	38.1	40.1	31.4	---	---	32.8	1970
1971	---	---	4.36	43.5	35.8	27.6	78.8	20.0	8.61	8.71	---	---	28.1	1971
1972	---	---	2.86	13.4	36.8	8.23	4.19	3.20	2.80	4.92	---	---	8.81	1972
1973	---	---	1.18	8.00	12.1	38.4	26.5	42.0	40.2	33.3	---	---	24.9	1973
1974	---	---	3.85	56.4	127	32.7	18.8	10.8	14.8	12.2	---	---	34.5	1974
1975	---	---	3.35	13.3	44.8	38.2	51.8	20.5	15.1	10.7	---	---	24.5	1975
1976	---	---	3.11	15.0	7.61	14.0	55.5	19.7	20.6	10.4	---	---	18.2	1976
1977	---	---	2.47	10.7	12.5	14.8	10.5	11.5	8.74	8.58	---	---	9.84	1977
1978	---	---	2.61	10.4	25.5	32.0	8.54	5.08	13.8	12.7	---	---	13.9	1978
1979	---	---	3.83	8.00	29.1	42.6	20.0	8.48	12.4	9.71	---	---	16.4	1979
1980	---	---	2.10	10.8	7.00	3.86	2.80	28.5	28.4	21.1	---	---	12.8	1980
1981	---	---	2.81	10.5	7.65	8.74	21.3	8.44	2.74	2.28	---	---	7.44	1981
1982	---	---	0.872	8.21	21.3	9.25	8.83	5.68	3.42	2.68	---	---	7.88	1982
1983	---	---	1.45	8.74	7.15	5.83	11.3	8.23	3.82	4.41	---	---	8.13	1983
1984	---	---	1.48	8.80	14.3	28.0	9.28	4.35	5.33	7.35	---	---	9.77	1984
1985	---	---	2.37	18.8	56.1	18.4	8.84	2.83	2.04	2.78	---	---	13.3	1985
1986	---	---	1.56	7.59	12.8	9.22	31.0	22.8	4.59	3.87	---	---	11.7	1986
1987	---	---	2.00	22.8	20.7	14.8	5.39	3.87	3.98	2.81	---	---	9.48	1987
1988	---	---	2.20	8.47	5.86	8.86	24.8	11.1	7.83	3.46	---	---	8.58	1988
MEAN	---	---	2.43	18.7	28.8	17.8	24.2	13.3	11.8	10.5	---	---	15.8	MEAN

LOCATION - LAT 54 28 15 N
LONG 111 11 08 W
DRAINAGE AREA, 4 810 km^2
NATURAL FLOW

SAND RIVER NEAR THE MOUTH - STATION NO. 08AB001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	57.4 ON APR 22	0.8508 ON MAR 1	322 000	1969
1970	181 AT 17:38 MST ON JUL 7	159 ON JUL 7	2.27 B ON MAR 1	688 000	1970
1971	115 AT 09:00 MST ON APR 27	114 ON APR 28	3.88 B ON MAR 8	686 000	1971
1972	87.7 AT 18:00 MST ON MAY 3	57.4 ON MAY 1	1.78 ON SEP 13	207 000	1972
1973	89.4 AT 22:30 MST ON AUG 30	88.1 ON AUG 31	0.8508 ON MAR 1	538 000	1973
1974	191 AT 11:00 MST ON APR 27 *	180 ON APR 27 *	3.68 B ON MAR 1	731 000	1974
1975	84.1 AT 20:00 MST ON JUL 5	83.0 ON JUL 5	3.23 B ON MAR 22	518 000	1975
1976	103 AT 13:30 MST ON JUL 18	97.7 ON JUL 18	2.97 B ON MAR 14	386 000	1976
1977	---	26.58 ON APR 18	2.38 B ON MAR 22	210 000	1977
1978	57.2 AT 17:00 MST ON JUN 2	56.5 ON MAY 31	2.19 B ON MAR 1	284 000	1978
1979	57.0 AT 23:20 MST ON JUN 17	57.0 ON JUN 17	2.89 B ON MAR 1	348 000	1979
1980	42.9 AT 18:20 MST ON AUG 14	42.8 ON AUG 15	1.87 B ON MAR 1	271 000	1980
1981	34.9 AT 10:50 MST ON JUL 14	34.8 ON JUL 14	1.50 B ON OCT 31	158 000	1981
1982	---	42.0A ON APR 28	0.7788 ON MAR 1 *	180 000	1982
1983	---	17.7 ON APR 21	1.35 B ON MAR 1	130 000	1983
1984	48.7 AT 03:28 MST ON JUN 5	48.4 ON JUN 5	1.23 B ON MAR 1	207 000	1984
1985	83.5 AT 14:32 MST ON MAY 12	83.3 ON MAY 12	1.70 ON AUG 30	281 000	1985
1986	89.6 AT 18:47 MST ON JUL 23	89.3 ON JUL 23	1.25 B ON MAR 8	248 000	1986
1987	89.7 AT 00:52 MST ON APR 18	48.3 ON APR 18	1.81 B ON MAR 30	201 000	1987
1988	41.2 AT 12:58 MST ON JUL 23	41.1 ON JUL 23	1.10 B ON MAR 1	182 000	1988
				334 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SNAKE INDIAN RIVER NEAR THE MOUTH - STATION NO. 07AB002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO SEP IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	49.4	139	103	48.3	26.6	17.6	---	---	72.6	1971
1972	---	---	---	---	51.6	210	74.6	45.1	22.0	---	---	---	80.3	1972
1973	---	---	---	---	44.1	99.7	59.9	38.6	21.5	---	---	---	52.1	1973
1974	---	---	---	---	---	---	---	45.5	20.6	13.2	---	---	---	1974
1975	---	---	---	---	18.7	62.7	73.5	27.9	17.5	11.6	---	---	38.1	1975
1976	---	---	---	---	34.1	83.9	77.6	66.5	---	---	---	---	---	1976
1977	---	---	---	---	29.4	84.1	70.8	54.0	24.8	15.8	---	---	52.8	1977
1978	---	---	---	---	24.0	84.4	81.5	38.3	42.6	22.8	---	---	54.1	1978
1979	---	---	---	---	25.5	78.2	88.8	38.2	21.2	14.1	---	---	45.5	1979
1980	---	---	---	---	38.8	103	71.8	41.3	30.6	21.2	---	---	52.9	1980
1981	---	---	---	---	51.4	80.5	49.9	40.8	25.5	10.8	---	---	43.7	1981
1982	---	---	---	---	22.0	111	84.5	46.0	36.8	23.7	---	---	59.9	1982
1983	---	---	---	---	28.6	85.8	47.5	33.8	18.5	12.3	---	---	37.0	1983
1984	---	---	---	---	13.9	84.9	87.1	39.8	35.2	23.1	---	---	44.1	1984
1985	---	---	---	---	40.2	83.1	88.2	32.8	24.4	15.1	---	---	43.3	1985
1986	---	---	---	---	36.2	83.2	84.5	34.8	20.9	16.7	---	---	49.8	1986
1987	---	---	---	---	38.6	78.8	47.5	45.5	22.5	12.6	---	---	48.7	1987
1988	---	---	---	---	34.4	80.3	41.3	31.9	15.8	14.8	---	---	37.5	1988
MEAN	---	---	---	---	34.3	87.2	85.8	41.2	25.4	16.3	---	---	50.6	MEAN

LOCATION - LAT 53 08 26 N, LONG 118 01 56 W DRAINAGE AREA, 1 580 km² NATURAL FLOW

SNAKE INDIAN RIVER NEAR THE MOUTH - STATION NO. 07AB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO SEP FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	323 ON JUN 9	14.2 E ON MAY 1	859 000	1971
1972	884 AT 17:30 MST ON JUN 12 *	532 ON JUN 12 *	---	1 080 000	1972
1973	---	227 E ON JUN 24	---	888 000	1973
1974	---	---	---	---	1974
1975	125 AT 03:30 MST ON JUL 10	119 ON JUL 10	7.79B ON MAY 1	504 000	1975
1976	123 AT 21:00 MST ON JUL 1	118 ON JUL 1	---	---	1976
1977	167 AT 08:00 MST ON JUN 8	161 ON JUN 8	11.0 E ON MAY 1	696 000	1977
1978	326 AT 01:30 MST ON JUL 12	288 ON JUL 12	13.3 ON MAY 7	715 000	1978
1979	163 AT 10:00 MST ON JUN 5	158 ON JUN 5	12.8 E ON MAY 1	801 000	1979
1980	170 AT 12:10 MST ON JUN 17	162 ON JUN 17	25.0 E ON SEP 28	888 000	1980
1981	134 AT 03:40 MST ON MAY 27	128 ON MAY 28	12.9 ON MAY 8	678 000	1981
1982	172 AT 18:55 MST ON JUN 28	165 ON JUN 22	8.70E ON MAY 8	791 000	1982
1983	111 AT 04:20 MST ON MAY 31	105 ON MAY 31	11.3 E ON MAY 1	488 000	1983
1984	184 AT 22:45 MST ON JUN 29	160 ON JUN 30	7.78A ON MAY 1	883 000	1984
1985	131 AT 01:55 MST ON JUL 1	120 ON JUN 30	8.45E ON MAY 1 *	573 000	1985
1986	205 AT 07:00 MST ON MAY 29	188 ON MAY 29	8.45E ON MAY 2	859 000	1986
1987	165 AT 22:20 MST ON JUN 13	147 ON JUN 13	10.2 ON SEP 30	817 000	1987
1988	89.9 AT 13:22 MST ON JUN 8	86.8 ON JUN 8	12.9 ON MAY 8	496 000	1988
				888 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SUNDANCE CREEK NEAR BICKERDIKE - STATION NO. 07AF010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	0.738	0.884	---	---	---	1972
1973	---	---	0.377	1.61	3.28	2.01	0.789	0.587	0.507	0.717	---	---	1.22	1973
1974	---	---	0.442	1.71	5.26	1.34	1.38	0.873	0.693	0.463	---	---	1.48	1974
1975	---	---	0.220	0.581	1.08	0.802	1.87	0.389	0.230	0.217	---	---	0.648	1975
1976	---	---	0.211	1.15	0.600	0.525	0.431	1.02	0.548	0.382	---	---	0.603	1976
1977	---	---	0.208	0.784	3.16	1.88	1.63	1.38	2.36	1.88	---	---	1.81	1977
1978	---	---	0.435	1.28	1.82	3.00	2.07	1.32	2.05	0.990	---	---	1.82	1978
1979	---	---	0.308	0.812	1.83	2.00	2.78	1.24	0.328	0.578	---	---	1.18	1979
1980	---	---	0.328	1.66	1.18	5.21	2.27	1.27	1.30	0.788	---	---	1.74	1980
1981	---	---	0.421	0.771	1.48	1.11	0.470	0.488	0.344	0.358	---	---	0.881	1981
1982	---	---	0.182	0.480	3.78	1.28	8.84	2.88	1.61	1.31	---	---	2.28	1982
1983	---	---	0.331	0.783	0.786	1.28	2.37	0.887	0.385	0.388	---	---	0.852	1983
1984	---	---	0.316	1.20	2.07	0.873	0.328	0.127	2.04	0.788	---	---	0.958	1984
1985	---	---	0.358	1.34	1.77	1.48	0.828	0.613	0.785	0.784	---	---	0.984	1985
1986	---	---	0.310	0.852	1.87	1.50	3.11	0.487	0.788	1.25	---	---	1.26	1986
1987	---	---	0.251	0.888	0.803	0.309	0.188	0.853	0.341	0.193	---	---	0.418	1987
1988	---	---	0.321	0.844	0.804	1.80	0.838	0.222	0.180	0.288	---	---	0.838	1988
MEAN	---	---	0.300	0.988	1.84	1.88	1.89	0.887	0.878	0.704	---	---	1.13	MEAN

LOCATION - LAT 53 33 58 N, LONG 118 42 12 W DRAINAGE AREA, 174 km² NATURAL FLOW

SUNDANCE CREEK NEAR BICKERDIKE - STATION NO. 07AF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	5.55 AT 23:50 MST ON MAY 28	5.30 ON MAY 28	0.3378 ON MAR 17	25 900	1973
1974	10.0 AT 04:00 MST ON MAY 14	9.71 ON MAY 14	0.3408 ON MAR 1	31 200	1974
1975	5.61 AT 10:30 MST ON JUL 1	5.52 ON JUL 1	0.185 ON SEP 15	13 700	1975
1976	2.84 AT 10:50 MST ON APR 14	2.34 ON APR 13	0.1788 ON MAR 8	12 800	1976
1977	5.85 AT 18:50 MST ON MAY 8	5.86 ON MAY 8	0.1848 ON MAR 22	34 100	1977
1978	6.52 AT 11:00 MST ON JUN 17	6.35 ON JUN 17	0.3828 ON MAR 1	34 200	1978
1979	6.13 AT 04:40 MST ON JUL 15	5.08 ON JUL 15	0.2768 ON MAR 1	25 100	1979
1980	9.88 AT 19:00 MST ON JUN 27	9.64 ON JUN 27	0.2812 ON MAR 1	38 800	1980
1981	2.34 AT 11:25 MST ON JUN 2	2.21 ON JUN 2	0.248 ON AUG 24	18 400	1981
1982	17.3 AT 12:00 MST ON JUL 16 *	15.4 ON JUL 6 *	0.1108 ON MAR 1	47 800	1982
1983	4.36 AT 23:40 MST ON JUL 4	4.20 ON JUL 5	0.1858 ON MAR 1	18 000	1983
1984	5.40 AT 18:10 MST ON SEP 23	5.30 ON SEP 23	0.084 ON AUG 21	20 300	1984
1985	4.48 AT 09:41 MST ON JUN 27	4.41 ON JUN 27	0.2708 ON MAR 11	20 400	1985
1986	9.57 AT 07:14 MST ON JUL 20	9.23 ON JUL 20	0.181 ON AUG 17	27 200	1986
1987	2.08 AT 18:48 MST ON AUG 2	2.01 ON AUG 3	0.088 ON JUL 28	8 880	1987
1988	4.90 AT 05:43 MST ON JUN 14	4.81 ON JUN 14	0.082 ON SEP 17 *	11 400	1988
				23 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SUNWAPTA RIVER AT ATHABASCA GLACIER - STATION NO. 07AA007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1949	---	---	---	---	---	2.01	4.52	4.40	---	---	---	---	---	1949
1950	---	---	---	---	---	---	5.85	4.61	2.28	---	---	---	---	1950
1951	---	---	---	---	---	1.04	5.68	3.61	1.35	---	---	---	---	1951
1952	---	---	---	---	---	1.08	1.65	2.97	2.08	---	---	---	---	1952
1953	---	---	---	---	---	2.02	4.92	4.85	1.68	0.483	---	---	---	1953
1954	---	---	---	---	---	1.89	4.32	3.83	1.57	0.242	---	---	---	1954
1955	---	---	---	---	---	1.87	5.13	4.57	2.33	---	---	---	---	1955
1956	---	---	---	---	0.403	2.85	5.01	5.09	2.20	---	---	---	---	1956
1957	---	---	---	---	---	1.02	1.82	2.87	2.10	---	---	---	---	1957
1958	---	---	---	---	0.787	1.38	5.00	5.75	1.87	0.371	---	---	2.54	1958
1959	---	---	---	---	---	1.85	4.74	3.09	1.18	---	---	---	---	1959
1960	---	---	---	---	0.135	1.52	5.83	3.85	1.48	0.321	---	---	2.20	1960
1961	---	---	---	---	0.460	4.09	5.41	5.82	1.35	0.641	---	---	2.83	1961
1962	---	---	---	---	---	3.16	4.08	4.04	1.34	0.380	---	---	---	1962
1963	---	---	---	---	---	---	4.89	4.71	3.79	0.845	---	---	---	1963
1964	---	---	---	---	---	---	5.84	3.28	1.21	0.527	---	---	---	1964
1965	---	---	---	---	---	2.44	4.57	5.83	0.591	0.345	---	---	---	1965
1966	---	---	---	---	0.461	2.00	4.49	4.31	3.08	0.874	---	---	2.80	1966
1967	---	---	---	---	---	2.48	4.69	5.31	3.85	0.534	---	---	---	1967
1968	---	---	---	---	0.178	1.94	4.55	3.47	1.93	0.386	---	---	2.08	1968
1969	---	---	---	---	---	3.48	4.08	4.28	1.78	---	---	---	---	1969
1970	---	---	---	---	---	3.82	5.77	5.07	1.17	0.298	---	---	---	1970
1971	---	---	---	---	0.285	2.01	4.02	5.10	1.50	0.508	---	---	2.41	1971
1972	---	---	---	---	---	2.88	3.45	5.38	1.38	0.340	---	---	---	1972
1973	---	---	---	---	---	1.81	---	3.73	1.85	0.227	---	---	---	1973
1974	---	---	---	---	0.148	2.03	3.78	4.18	1.74	0.615	---	---	2.08	1974
1975	---	---	---	---	0.186	1.23	5.43	3.33	1.22	0.273	---	---	2.10	1975
1976	---	---	---	---	---	1.17	3.98	---	---	0.416	---	---	---	1976
1977	---	---	---	---	0.218	2.83	3.67	4.38	0.887	0.108	---	---	2.01	1977
1978	---	---	---	---	0.147	2.33	5.80	4.12	2.88	0.340	---	---	2.58	1978
1979	---	---	---	---	0.277	2.06	5.09	4.73	2.41	0.890	---	---	2.55	1979
1980	---	---	---	---	0.827	2.55	4.40	2.84	1.45	0.755	---	---	2.18	1980
1981	---	---	---	---	0.925	1.45	4.80	5.44	2.53	0.160	---	---	2.75	1981
1982	---	---	---	---	0.174	3.10	4.83	4.28	2.83	0.389	---	---	2.59	1982
1983	---	---	---	---	0.415	2.80	4.29	4.88	1.02	0.278	---	---	2.25	1983
1984	---	---	---	---	0.104	2.43	4.35	5.06	1.52	0.829	---	---	2.38	1984
1985	---	---	---	---	0.584	1.88	5.78	3.61	0.881	0.103	---	---	2.08	1985
1986	---	---	---	---	0.649	3.87	3.87	4.37	1.25	0.340	---	---	2.42	1986
1987	---	---	---	---	0.582	3.87	5.24	2.80	2.34	0.492	---	---	2.58	1987
1988	---	---	---	---	0.811	2.87	3.87	4.31	1.83	0.768	---	---	2.41	1988
MEAN	---	---	---	---	0.425	2.25	4.68	4.35	1.83	0.442	---	---	2.38	MEAN

LOCATION - LAT 52 13 00 N, LONG 117 13 57 W DRAINAGE AREA, 29.6 km^2, NATURAL FLOW

SUNWAPTA RIVER AT ATHABASCA GLACIER - STATION NO. 07AA007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1949	13.5 AT 18:00 MST ON JUL 15	9.08 ON JUL 18	---	---	1949
1950	12.2 AT 17:00 MST ON JUL 26	8.29 ON JUL 26	---	---	1950
1951	11.8 AT 18:20 MST ON JUL 18	8.40 ON JUL 18	---	---	1951
1952	7.35 AT 21:00 MST ON AUG 13	5.49 ON AUG 13	---	---	1952
1953	13.8 AT 18:00 MST ON JUL 14	11.9 ON JUL 14	---	---	1953
1954	8.30 AT 17:00 MST ON JUL 19	6.85 ON JUL 19	---	---	1954
1955	15.3 AT 19:00 MST ON JUL 17 *	12.0 ON JUL 15 *	---	---	1955
1956	12.5 AT 08:30 MST ON JUL 24	9.71 ON JUL 22	---	---	1956
1957	6.88 AT 20:00 MST ON SEP 8	5.86 ON SEP 7	---	---	1957
1958	10.6 AT 15:00 MST ON JUL 21	9.12 ON JUL 22	0.1138 ON MAY 1	40 300	1958
1959	11.6 AT 17:00 MST ON JUL 24	10.2 ON JUL 24	---	---	1959
1960	10.8 AT 17:00 MST ON JUL 19	8.78 ON JUL 19	0.0288 ON MAY 1	34 800	1960
1961	10.8 AT 17:00 MST ON JUL 21	9.34 ON JUL 21	0 B ON MAY 1 *	48 600	1961
1962	8.35 AT 17:00 MST ON AUG 1	6.71 ON JUL 28	---	---	1962
1963	10.3 AT 18:00 MST ON AUG 13	8.58 ON AUG 13	---	---	1963
1964	10.2 AT 21:00 MST ON JUL 13	8.84 ON JUL 15	---	---	1964
1965	---	8.58 ON AUG 10	---	---	1965
1966	8.85 AT 18:00 MST ON JUL 30	7.56 ON JUL 30	0.0428 ON MAY 1	39 700	1966
1967	8.52 AT 18:30 MST ON AUG 13	8.04 ON SEP 2	---	---	1967
1968	8.83 AT 04:15 MST ON JUN 27	8.85 ON JUL 12	0 B ON MAY 1	33 000	1968
1969	7.78 AT 15:44 MST ON JUL 24	6.31 ON AUG 21	---	---	1969
1970	9.83 AT 17:20 MST ON JUL 18	8.55 ON JUL 8	---	---	1970
1971	11.3 AT 16:25 MST ON AUG 2	8.37 ON AUG 6	0.0148 ON MAY 13	38 300	1971
1972	10.1 AT 17:30 MST ON AUG 9	8.33 ON AUG 9	---	---	1972
1973	---	---	---	---	1973
1974	10.1 AT 15:20 MST ON AUG 5	8.47 ON AUG 5	0.0488 ON MAY 4	33 100	1974
1975	12.3 AT 17:30 MST ON JUL 11	10.7 ON JUL 28	0.0288 ON MAY 1	33 400	1975
1976	7.83 AT 19:00 MST ON AUG 6	6.77 ON AUG 3	---	---	1976
1977	8.04 AT 18:00 MST ON AUG 13	6.88 ON AUG 12	0.0258 ON MAY 1	32 000	1977
1978	11.8 AT 16:30 MST ON SEP 4	11.1 ON SEP 4	0.0158 ON MAY 1	41 100	1978
1979	10.3 AT 18:00 MST ON JUL 20	8.26 ON JUL 21	0.074 ON MAY 12	40 500	1979
1980	10.3 AT 18:05 MST ON JUL 23	8.45 ON JUL 23	0.124 ON OCT 30	34 300	1980
1981	11.9 AT 18:10 MST ON AUG 15	9.52 ON AUG 12	0.100E ON OCT 30	43 800	1981
1982	12.2 AT 13:50 MST ON SEP 9	10.5 ON SEP 8	0.0208 ON MAY 1	41 200	1982
1983	11.7 AT 18:15 MST ON JUL 12	9.39 ON JUL 12	0.0528 ON MAY 1	35 800	1983
1984	10.2 AT 17:50 MST ON JUL 28	8.18 ON JUL 28	0.0248 ON MAY 1	37 800	1984
1985	10.3 AT 17:10 MST ON JUL 21	7.89 ON JUL 21	0.0308 ON MAY 1	33 300	1985
1986	8.28 AT 17:15 MST ON AUG 11	6.30 ON JUL 2	0.0808 ON MAY 1	38 500	1986
1987	12.8 AT 18:20 MST ON JUL 29	8.96 ON JUL 28	0.0808 ON MAY 2	40 800	1987
1988	8.83 AT 17:20 MST ON JUL 26	7.53 ON JUL 26	0.098E ON MAY 1	38 400	1988
				37 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WALBURGER COULEE BELOW DIVERSIONS - STATION NO. 11AB068

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	0	0.021	0.002	0	---	---	---	1960
1961	---	---	0.004	0.001	0.116	0.128	0.188	0	0	0	---	---	0.054	1961
1962	---	---	0.022	0.001	0	0	0	0	0	0	---	---	0.003	1962
1963	---	---	0	0	0	0	0.008	0	0	0	---	---	0.001	1963
1964	---	---	0.008	0.001	0	0	0	0	0	0	---	---	0.001	1964
1965	---	---	0	0.138	0.008	0.144	0.022	0.008	0.002	0	---	---	0.038	1965
1966	---	---	0.183	0.252	0	0	0	0	0	0	---	---	0.060	1966
1967	---	---	0	0.388	0.706	0.313	0.128	0.116	0.007	0.021	---	---	0.208	1967
1968	---	---	0.008	0.001	0.001	0.002	0.011	0	0.041	0.003	---	---	0.008	1968
1969	---	---	---	0.100	0.001	0.010	0.021	0.001	0	0.023	---	---	---	1969
1970	---	---	---	---	0.010	0.804	0.428	0.008	0	0	---	---	---	1970
1971	---	---	---	0.058	0.001	0.003	0	0	0.001	0	0.030	---	---	1971
1972	---	---	---	0.002	0.008	0.023	0	0	0	0.015	---	---	---	1972
1973	---	---	---	0.228	0.132	0.004	0	0	0	0	---	---	---	1973
1974	---	---	0.001	0.001	0	0	0	0	0	0	---	---	0	1974
1975	---	---	0	0.008	0.028	0.037	0	0	0	0	---	---	0.008	1975
1976	---	---	---	0.002	0	0	0	0	0	0	---	---	---	1976
1977	---	---	0	0	0	0.001	0	0	0	0	---	---	0	1977
1978	---	---	0.001	0.023	0.001	0	0	0	0	0	---	---	0.003	1978
MEAN	---	---	0.015	0.088	0.088	0.081	0.030	0.008	0.003	0.005	---	---	0.031	MEAN

LOCATION - LAT 48 17 30 N, LONG 110 01 20 W
DRAINAGE AREA, REGULATED 84.4 km^2
INTERNATIONAL GAUGING STATION

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	---	---	---	---	---	---	0.207	0.187	---	---	---	1966
1967	---	---	---	---	---	---	---	---	0.050	0.083	0.035	---	---	1967
1968	---	---	---	---	---	0.848	0.173	0.081	0.050	0.083	0.035	---	---	1968
1969	---	---	---	0.038	0.508	0.289	0.487	0.398	0.171	0.115	0.078	0.028	0.288	1969
				---	0.453	0.442	0.821	0.985	0.188	0.130	---	---	---	
1970	---	---	---	---	---	---	---	---	---	---	---	---	---	1970
1971	---	---	---	---	0.558	0.572	0.117	0.085	0.049	0.030	---	---	---	1971
1972	---	---	---	0.132	0.857	1.08	0.889	0.132	0.140	0.154	---	---	0.424	1972
1973	---	---	---	---	0.983	1.20	0.336	0.122	0.237	0.294	---	---	---	1973
1974	---	---	---	0.068	1.83	0.482	0.216	0.139	0.132	0.162	---	---	0.432	1974
				0.344	1.12	0.412	0.265	0.129	0.176	0.118	---	---	0.388	
1975	---	---	---	---	---	---	---	---	---	---	---	---	---	1975
1976	---	---	---	0.037	0.405	0.343	0.193	0.077	0.058	0.046	---	---	0.188	1976
1977	---	---	---	0.148	0.563	0.478	0.178	0.383	0.150	0.087	---	---	0.288	1977
1978	---	---	---	0.092	1.48	0.559	0.511	0.403	0.500	0.281	---	---	0.544	1978
1979	---	---	---	0.312	1.01	0.688	0.503	0.243	0.528	0.201	---	---	0.488	1979
				0.036	0.855	0.441	0.295	0.103	0.048	0.077	---	---	0.237	
1980	---	---	---	0.370	0.507	2.93	0.875	0.308	0.451	0.204	---	---	0.771	1980
1981	---	---	---	0.078	0.828	0.533	0.645	0.308	0.126	0.050	---	---	0.338	1981
1982	---	---	---	0.234	0.783	0.577	1.21	0.387	0.383	0.491	---	---	0.577	1982
1983	---	---	---	0.275	0.564	0.409	0.288	0.078	0.049	0.081	---	---	0.243	1983
1984	---	---	---	0.240	0.415	0.478	0.088	0.050	0.238	0.472	---	---	0.284	1984
1985	---	---	---	0.243	0.328	0.475	0.178	0.585	0.851	0.268	---	---	0.388	1985
1986	---	---	---	0.345	0.700	0.284	1.22	0.246	0.288	0.457	---	---	0.495	1986
1987	---	---	---	0.043	0.222	0.118	0.137	0.715	0.169	0.095	---	---	0.218	1987
1988	---	---	---	0.167	0.174	0.431	0.081	0.143	0.113	0.098	---	---	0.172	1988
MEAN	---	---	---	0.172	0.891	0.539	0.421	0.272	0.220	0.178	0.057	0.028	0.373	MEAN

LOCATION - LAT 53 08 22 N, LONG 117 15 40 W. DRAINAGE AREA 25.4 km². NATURAL FLOW

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	2.13 AT 17:20 MST ON JUL 20	2.53 E ON JUN 8	---	---	1968
1969	20.4 AT 17:39 MST ON AUG 5 *	1.66 ON JUL 22	0.0018 ON APR 18 *	5 290	1969
		7.89 ON AUG 5	---	---	
1970	3.94 AT 05:00 MST ON JUN 18	---	---	---	1970
1971	7.50 AT 23:30 MST ON JUN 8	3.37 ON JUN 18	---	---	1971
1972	10.3 AT 15:00 MST ON JUN 25	5.27 ON JUN 8	0.0118 ON APR 1	7 850	1972
1973	8.38 AT 19:15 MST ON MAY 15	6.81 ON JUN 25	---	---	1973
1974	2.42 AT 22:30 MST ON MAY 6	5.21 ON MAY 15	0.0148 ON APR 1	7 990	1974
		1.78 ON MAY 6	0.040 ON AUG 8	8 770	
1975	0.954 AT 13:00 MST ON JUN 17	---	---	---	1975
1976	1.45 AT 00:10 MST ON MAY 9	0.850B ON MAY 9	0.0148 ON APR 1	3 080	1976
1977	8.75 AT 16:20 MST ON MAY 29	1.22 ON MAY 2	0.0148 ON APR 1	5 180	1977
1978	8.04 AT 08:10 MST ON MAY 16	4.90 ON MAY 29	0.0408 ON APR 20	10 100	1978
1979	1.67 AT 05:00 MST ON JUN 20	4.08 ON MAY 16	0.0898 ON APR 1	9 210	1979
		1.10 ON MAY 16	0.008 ON SEP 18	4 380	
1980	19.1 AT 08:30 MST ON JUN 4	15.5 ON JUN 4 *	0.0808 ON APR 1	14 300	1980
1981	3.34 AT 02:45 MST ON JUL 30	2.45 ON JUL 30	0.0208 ON APR 1	8 270	1981
1982	7.43 AT 19:55 MST ON JUL 4	5.55 ON JUL 5	0.0058 ON APR 1	10 700	1982
1983	1.85 AT 10:35 MST ON JUN 24	1.28 ON JUN 24	0.0388 ON APR 10	4 500	1983
1984	2.26 AT 21:10 MST ON OCT 4	1.71 ON OCT 4	0.033 ON AUG 23	5 260	1984
1985	3.06 AT 12:50 MST ON AUG 15	2.13 ON AUG 15	0.085 ON AUG 8	7 130	1985
1986	11.8 AT 21:33 MST ON JUL 17	6.59 ON JUL 17	0.0708 ON APR 12	8 150	1986
1987	8.92 AT 22:09 MST ON AUG 1	4.03 ON AUG 2	0.0158 ON APR 17	3 980	1987
1988	3.28 AT 04:37 MST ON JUN 8	2.07 ON JUN 8	0.0158 ON APR 1	3 190	1988
				8 910	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHIRLPOOL RIVER NEAR THE MOUTH - STATION NO. 07AA003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO SEP IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	---	---	16.6	31.8	37.8	31.6	23.3	11.3	---	---	27.8	1966
1967	---	---	---	---	9.73	58.5	63.8	33.3	28.2	10.7	---	---	38.9	1967
1968	---	---	---	---	13.1	35.3	48.7	30.2	25.8	7.41	---	---	32.6	1968
1969	---	---	---	---	---	54.6	40.4	---	---	---	---	---	---	1969
1970	---	---	---	---	7.94	54.1	44.8	35.2	11.7	5.60	---	---	30.7	1970
1971	---	---	---	---	18.6	44.4	42.5	45.0	20.0	8.18	---	---	34.1	1971
1972	---	---	---	---	17.8	63.0	41.3	38.2	15.8	8.88	---	---	35.3	1972
1973	---	---	---	---	16.0	40.2	37.5	33.7	15.1	7.84	---	---	24.5	1973
1974	---	---	---	---	9.66	52.8	53.3	38.3	21.1	8.54	---	---	34.8	1974
1975	---	---	---	---	8.01	32.0	56.8	28.1	14.5	8.77	---	---	28.1	1975
1976	---	---	---	---	17.2	28.8	57.0	51.4	26.4	10.3	---	---	35.8	1976
1977	---	---	---	---	10.8	42.2	38.7	38.0	18.1	5.82	---	---	28.3	1977
1978	---	---	---	---	10.8	53.7	50.8	38.1	40.0	13.3	---	---	40.8	1978
1979	---	---	---	---	---	38.1	49.0	36.8	21.2	8.66	---	---	---	1979
1980	---	---	---	---	25.8	38.0	37.2	28.1	18.8	10.7	---	---	29.6	1980
1981	---	---	---	---	20.6	26.8	47.0	46.0	21.0	5.28	---	---	32.6	1981
1982	---	---	---	---	5.13	55.8	54.5	37.6	28.8	9.52	---	---	36.6	1982
1983	---	---	---	---	13.5	37.8	43.8	37.0	17.0	7.82	---	---	29.8	1983
1984	---	---	---	---	4.84	50.4	43.7	41.2	23.6	8.82	---	---	32.7	1984
1985	---	---	---	---	18.3	34.4	45.4	28.0	12.6	5.32	---	---	28.2	1985
1986	---	---	---	---	18.1	56.1	48.3	38.6	15.7	8.74	---	---	35.1	1986
1987	---	---	---	---	20.7	55.8	43.6	31.9	19.3	6.78	---	---	34.2	1987
1988	---	---	---	---	17.3	46.2	38.7	37.7	16.2	9.35	---	---	31.0	1988
MEAN	---	---	---	---	14.2	45.0	46.7	37.0	20.7	8.88	---	---	32.7	MEAN

LOCATION - LAT 52 43 28 N, LONG 117 55 29 W. DRAINAGE AREA 598 km². NATURAL FLOW

WHIRLPOOL RIVER NEAR THE MOUTH - STATION NO. 07AA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO SEP FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	78.7 AT 17:00 MST ON JUN 4	58.3 ON JUL 25	2.25E ON MAY 1	388 000	1969
		63.8 ON JUN 27	1.05 ON MAY 1 *	514 000	1967
		86.9 ON JUL 5	2.83E ON MAY 1	429 000	1968
		73.8 ON JUN 5	---	---	1969
1970	77.0 AT 11:30 MST ON JUN 22	73.3 ON JUN 22	1.87 ON MAY 1	406 000	1970
1971	78.6 AT 00:00 MST ON JUN 24	70.8 ON JUN 24	4.70 ON MAY 1	452 000	1971
1972	108 E ON JUN 11	103 E ON JUN 11	1.82 ON MAY 1	467 000	1972
1973	97.1 AT 12:40 MST ON JUN 24	82.3 ON JUN 24	1.98E ON MAY 1	377 000	1973
1974	121 AT 07:30 MST ON JUN 23	114 ON JUN 23	8.37 ON MAY 18	461 000	1974
1975	88.3 AT 06:30 MST ON JUL 13	84.4 ON JUL 12	2.30 ON MAY 1	372 000	1975
1976	74.8 AT 08:30 MST ON JUL 9	71.6 ON JUL 8	4.84 ON MAY 1	487 000	1976
1977	81.3 AT 08:00 MST ON JUN 6	78.6 ON JUN 6	5.83 ON MAY 1	387 000	1977
1978	108 AT 20:15 MST ON SEP 3	91.7 ON SEP 4	5.21 ON MAY 7	537 000	1978
1979	72.2 AT 07:00 MST ON JUL 21	68.5 ON JUL 21	---	---	1979
1980	89.4 AT 09:25 MST ON JUN 17	86.1 ON JUN 17	11.0 ON SEP 27	392 000	1980
1981	88.9 AT 06:50 MST ON JUL 5	84.5 ON JUL 5	4.33E ON MAY 1	431 000	1981
1982	101 AT 09:50 MST ON JUN 22	88.5 ON JUN 22	1.40 ON MAY 1	483 000	1982
1983	84.2 AT 23:15 MST ON JUL 12	72.0 ON JUL 12	3.17 ON MAY 1	398 000	1983
1984	169 AT 09:20 MST ON JUN 29 *	163 ON JUN 29 *	2.32 ON MAY 4	432 000	1984
1985	70.2 AT 11:50 MST ON JUN 30	66.7 ON JUN 30	1.79 ON MAY 1	373 000	1985
1986	107 AT 07:04 MST ON MAY 31	99.4 ON MAY 31	1.88 ON MAY 1	464 000	1986
1987	109 AT 11:45 MST ON JUN 13	104 ON JUN 13	10.8 ON MAY 6	452 000	1987
1988	83.0 AT 10:03 MST ON JUN 4	76.6 ON JUN 4	4.54 ON MAY 5	410 000	1988
				433 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHISKEYJACK CREEK NEAR HINTON - STATION NO. 07AD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	0.078	0.092	0.014	0.028	0.012	---	---	---	1965
1966	---	---	---	0.008	0.088	0.060	0.030	0.042	0.018	0.008	---	---	0.041	1966
1967	---	---	---	0.001	0.027	0.088	0.012	0.004	0.002	0.001	0.001	0.001	0.018	1967
1968	0	---	---	---	---	0.008	0.006	0.006	0.003	0.003	0.002	---	---	1968
1969	---	---	---	---	0.015	0.013	0.032	0.084	0.011	0.007	0.008	0.003	0.022	1969
1970	---	---	0.001	0.002	0.018	0.018	0.008	0.003	0.001	0.001	---	---	0.008	1970
1971	---	---	---	---	0.014	0.082	0.073	0.006	0.003	0.003	---	---	0.027	1971
1972	---	---	0	0.003	0.032	0.043	0.021	0.009	0.010	0.022	0.008	0.002	0.023	1972
1973	---	---	---	---	0.084	0.037	0.008	0.004	0.002	0.004	0.003	0.001	0.020	1973
1974	---	---	---	---	---	0.016	0.012	0.006	0.005	0.002	0.001	0.001	---	1974
1975	---	---	---	---	0.007	0.010	0.005	0.001	0.001	0.001	0.001	---	0.005	1975
1976	---	---	---	---	0.006	0.004	0.003	0.012	0.003	0.002	0.001	0.001	0.005	1976
1977	---	---	---	---	0.071	0.028	0.034	0.028	0.038	0.028	---	---	0.038	1977
1978	---	---	---	---	0.037	0.085	0.037	0.013	0.018	0.008	---	---	0.029	1978
1979	---	---	---	---	---	---	---	0.008	0.004	0.004	---	---	---	1979
1980	---	---	---	---	0.013	0.121	0.044	0.020	0.021	0.010	---	---	0.038	1980
1981	---	---	---	---	0.038	0.028	0.021	0.012	0.005	0.003	---	---	0.018	1981
1983	---	---	---	---	---	---	0.033	0.010	0.005	0.006	---	---	---	1983
1984	---	---	---	---	0.038	0.029	0.007	0.003	0.009	0.014	---	---	0.016	1984
1985	---	---	---	0.005	0.011	0.031	0.013	0.011	0.018	0.012	---	---	0.018	1985
1986	---	---	---	---	0.034	0.038	0.088	0.018	0.017	0.028	---	---	0.033	1986
1987	---	---	---	---	0.013	0.008	0.008	0.088	0.017	0.007	---	---	0.021	1987
1988	---	---	---	---	0.003	0.024	0.007	0.004	0.003	0.003	---	---	0.007	1988
MEAN	0	---	0.001	0.004	0.028	0.038	0.028	0.015	0.010	0.008	0.003	0.002	0.022	MEAN

LOCATION - LAT 53 22 50 N, LONG 117 32 15 W DRAINAGE AREA, 3.13 km^2, NATURAL FLOW

WHISKEYJACK CREEK NEAR HINTON - STATION NO. 07AD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	0.385 AT 15:00 MST ON JUL 8	0.241 ON JUL 11	---	---	1965
1966	0.385 AT 15:00 MST ON MAY 10	0.266 ON MAY 10	0.007 ON OCT 18	849	1966
1967	0.193 AT 08:00 MST ON JUN 8	0.159 ON JUN 9	0.001 ON SEP 14 *	299	1967
1968	---	0.016 ON JUN 29	0.002 ON SEP 25	---	1968
1969	0.578 AT 18:00 MST ON AUG 5	0.340 ON AUG 5	0.004 ON OCT 30	354	1969
1970	0.099 AT 22:50 MST ON JUN 15	0.062 ON JUN 16	0.001E ON AUG 22	124	1970
1971	0.246 AT 21:30 MST ON JUL 11	0.210 ON JUL 12	0.001 ON SEP 4	428	1971
1972	---	0.156 ON JUN 25	0.004 ON AUG 8	381	1972
1973	0.190 AT 20:15 MST ON MAY 27	0.157 ON MAY 28	0.001 ON SEP 4	318	1973
1974	---	---	---	---	1974
1975	0.074 AT 17:30 MST ON JUN 28	0.048 ON JUN 28	0.001 ON AUG 7	78.3	1975
1976	0.078 AT 14:30 MST ON AUG 16	0.052 ON AUG 16	0.001 ON JUL 23	80.5	1976
1977	0.288 AT 18:20 MST ON MAY 29	0.187 ON MAY 30	0.001 ON MAY 1	822	1977
1978	0.328 AT 12:30 MST ON JUL 11	0.178 ON JUL 11	0.004 ON OCT 19	464	1978
1979	---	---	---	---	1979
1980	0.619 AT 19:40 MST ON JUN 4 *	0.522 ON JUN 4 *	0.004E ON MAY 1	803	1980
1981	0.252 AT 18:50 MST ON MAY 22	0.129 ON MAY 23	0.001 ON MAY 2	278	1981
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	0.175 AT 23:10 MST ON JUN 24	0.058E ON MAY 17	0.002E ON AUG 13	253	1985
1986	0.338 AT 19:07 MST ON JUL 17	0.119 ON JUN 25	0.003 ON AUG 5	282	1986
1987	---	0.218 ON JUL 18	0.007 ON AUG 31	526	1987
1988	0.095 AT 07:40 MST ON JUN 9	0.200E ON AUG 2	0.003 ON JUL 2	330	1988
		0.087A ON JUN 9	0.001E ON MAY 1	115	
MEAN				341	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEHORSE CREEK NEAR CADOMIN - STATION NO. 07AF910

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	2.30	3.98	2.30	3.55	2.89	0.959	---	---	2.85	1985
1986	---	---	---	---	---	4.53	1.94	1.88	1.35	2.06	---	---	---	1986
1987	---	---	---	0.349	1.75	1.76	2.46	6.61	1.11	0.717	---	---	2.41	1987
MEAN	---	---	---	0.349	2.03	3.55	4.23	3.95	1.78	1.25	---	---	2.53	MEAN

LOCATION - LAT 52 59 00 N, LONG 117 20 40 W. DRAINAGE AREA, 115 km^2. NATURAL FLOW.

DATA CONTRIBUTED BY - ALBERTA DEPARTMENT OF THE ENVIRONMENT

WHITEHORSE CREEK NEAR CADOMIN - STATION NO. 07AF910

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	12.6 AT 20:04 MST ON JUN 28	9.39 ON JUN 28	0.157E ON MAY 2 *	42 300	1985
1986	28.3 AT 15:01 MST ON JUL 18 *	25.3 ON JUL 18 *	---	---	1986
1987	19.4 AT 19:10 MST ON AUG 3	18.2 ON AUG 2	0.545B ON OCT 31	38 300	1987
				40 300	MEAN

B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILDHAY RIVER NEAR HINTON - STATION NO. 07AC001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	1.09	5.23	12.1	31.4	38.2	21.1	18.4	10.8	---	---	22.2	1965
1966	---	---	1.54	2.18	20.8	26.9	21.8	17.0	10.8	8.38	---	---	17.2	1966
1967	---	---	1.42	1.70	14.7	35.5	13.2	7.80	4.73	3.62	---	---	13.2	1967
1968	---	---	3.99	2.50	14.0	18.2	17.2	12.6	7.61	4.70	---	---	13.5	1968
1969	---	---	---	---	---	12.7	13.8	26.5	8.57	4.62	---	---	---	1969
1970	---	---	---	---	8.08	15.4	7.30	3.95	3.02	2.53	---	---	6.88	1970
1971	---	---	---	---	8.12	34.1	32.8	8.67	5.23	4.38	---	---	15.8	1971
1972	---	---	---	---	11.5	38.3	12.5	7.25	5.96	6.19	---	---	13.8	1972
1973	---	---	---	---	11.0	17.2	11.0	5.86	3.95	3.88	---	---	8.77	1973
1974	---	---	---	---	8.89	24.4	16.8	8.81	6.41	4.41	---	---	11.8	1974
1975	---	---	---	---	4.56	9.53	11.7	4.91	3.83	2.56	---	---	6.15	1975
1976	---	---	---	---	10.2	12.5	13.0	17.5	7.84	4.44	---	---	10.9	1976
1977	---	---	---	---	14.2	26.3	21.6	14.8	13.1	8.58	---	---	16.4	1977
1978	---	---	---	---	10.0	24.8	23.6	10.4	13.3	7.88	---	---	15.0	1978
1979	---	---	---	---	5.41	14.0	9.24	6.13	4.25	3.12	---	---	7.51	1979
1980	---	---	---	---	5.83	39.8	15.3	10.8	8.26	5.13	---	---	14.4	1980
1981	---	---	---	---	11.2	11.3	8.99	6.82	5.26	3.61	---	---	8.21	1981
1982	---	---	---	---	7.24	28.1	35.3	14.9	11.3	11.5	---	---	17.7	1982
1983	---	---	---	---	8.24	12.3	13.0	6.59	4.24	3.15	---	---	7.58	1983
1984	---	---	---	---	4.93	20.8	11.5	5.89	5.52	11.1	---	---	10.2	1984
1985	---	---	---	---	7.24	12.8	9.59	6.08	5.84	7.04	---	---	8.73	1985
1986	---	---	---	---	11.8	20.1	24.7	11.4	8.32	7.22	---	---	13.6	1986
1987	---	---	---	---	5.92	8.32	6.04	19.7	6.81	3.62	---	---	8.42	1987
1988	---	---	---	---	4.82	7.43	4.84	3.67	3.21	2.81	---	---	4.45	1988
MEAN	---	---	2.01	2.82	9.83	20.9	15.4	10.9	7.41	5.81	---	---	11.8	MEAN

LOCATION - LAT 53 31 24 N, LONG 117 56 48 W. DRAINAGE AREA, 959 km^2. NATURAL FLOW.

WILDHAY RIVER NEAR HINTON - STATION NO. 07AC001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	110 AT 23:00 MST ON JUL 11	92.9 ON JUL 12	4.90 ON MAY 7	352 000	1965
1966	44.7 AT 19:00 MST ON MAY 10	41.8 ON MAY 27	2.41 B ON MAY 1	274 000	1966
1967	54.9 AT 05:00 MST ON JUN 3	53.4 ON JUN 3	2.87 ON OCT 30	209 000	1967
1968	28.4 AT 12:50 MST ON JUN 12	26.8 ON JUN 12	2.83 B ON MAY 1	199 000	1968
1969	122 AT 08:07 MST ON AUG 8	96.3 ON AUG 8	---	---	1969
1970	35.1 AT 04:40 MST ON JUN 4	33.4 ON JUN 4	3.12 ON MAY 1	186 000	1970
1971	117 AT 21:00 MST ON JUN 9	97.7 ON JUN 9	3.40 E ON OCT 31	247 000	1971
1972	118 AT 14:00 MST ON JUN 13	112 ON JUN 13	2.89 ON MAY 1	215 000	1972
1973	29.2 AT 22:45 MST ON JUN 24	26.9 ON JUN 25	2.37 ON MAY 1	139 000	1973
1974	40.8 AT 08:40 MST ON JUN 19	38.8 ON JUN 17	3.54 E ON OCT 31	184 000	1974
1975	17.3 AT 12:40 MST ON JUL 4	17.0 ON JUL 4	0.8038 ON MAY 1 *	97 700	1975
1976	29.7 AT 02:10 MST ON AUG 17	28.3 ON AUG 17	3.43 E ON OCT 31	174 000	1976
1977	46.3 AT 05:20 MST ON JUN 8	43.2 ON JUN 8	3.33 ON MAY 2	261 000	1977
1978	77.3 AT 17:40 MST ON JUL 11	61.4 ON JUL 12	5.35 ON OCT 31	238 000	1978
1979	28.7 AT 12:15 MST ON MAY 27	24.1 ON MAY 27	2.86 A ON OCT 30	119 000	1979
1980	165 AT 16:20 MST ON JUN 4 *	121 ON JUN 4 *	4.48 ON OCT 31	239 000	1980
1981	25.0 AT 06:30 MST ON MAY 23	23.4 ON MAY 23	2.92 ON OCT 30	131 000	1981
1982	75.0 AT 05:55 MST ON JUL 5	73.0 ON JUL 5	3.15 B ON MAY 1	282 000	1982
1983	29.2 AT 19:50 MST ON JUN 24	26.5 ON JUN 25	2.87 ON OCT 28	121 000	1983
1984	35.6 AT 09:00 MST ON JUN 14	33.9 ON JUN 14	2.35 ON MAY 5	182 000	1984
1985	20.3 AT 11:00 MST ON JUN 30	19.9 ON JUN 30	2.02 ON MAY 1	139 000	1985
1986	63.3 AT 17:34 MST ON JUL 18	60.6 ON JUL 18	1.74 ON MAY 2	218 000	1986
1987	62.7 AT 09:46 MST ON AUG 2	59.0 ON AUG 2	2.89 ON MAY 1	134 000	1987
1988	8.95 AT 13:32 MST ON JUN 9	8.74 ON JUN 9	2.30 E ON OCT 26	70 900	1988
				187 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WOLF CREEK AT HIGHWAY NO. 16A - STATION NO. 07AG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	---	---	---	---	---	---	1.27	0.895	---	1954
1955	0.887	0.550	0.598	8.26	9.58	6.58	5.57	1.53	0.291	0.741	0.605	0.283	3.96	1955
1956	0.314	0.382	0.275	4.46	4.48	5.51	2.19	1.24	0.888	0.605	0.716	0.530	1.61	1956
1957	0.545	0.332	0.418	8.00	8.86	2.03	2.83	8.78	2.60	4.70	3.48	1.44	3.53	1957
1958	0.919	0.768	0.819	6.53	6.80	7.83	7.18	0.598	0.984	1.14	0.539	0.279	2.68	1958
1959	0.153	0.082	0.238	1.73	3.12	9.50	2.34	0.987	1.26	1.97	1.38	0.702	1.95	1959
1960	0.508	0.385	1.74	4.22	8.72	8.64	8.72	1.09	1.47	1.88	0.832	0.359	3.04	1960
1961	0.544	0.506	0.800	1.70	4.43	1.87	2.34	1.39	0.408	1.24	0.521	0.277	1.31	1961
1962	0.087	0.097	0.318	8.53	8.76	2.93	3.40	3.88	8.80	3.04	2.01	0.708	3.28	1962
1963	0.223	0.077	0.084	11.7	10.7	3.14	0.971	0.587	0.902	0.789	0.375	0.316	2.80	1963
1964	0.216	0.279	0.284	1.53	12.0	4.20	7.04	5.88	13.3	7.04	2.08	0.830	4.57	1964
1965	0.387	0.517	0.449	8.86	17.9	19.9	25.0	2.85	4.52	2.27	1.00	1.00	7.08	1965
1966	0.494	0.883	1.09	7.16	8.31	4.31	8.86	15.7	5.85	3.04	1.48	1.33	4.88	1966
1967	0.841	0.506	0.858	3.80	9.42	8.92	2.05	3.38	0.809	0.410	0.345	0.128	2.41	1967
1968	0.045	0.022	0.105	2.41	5.39	4.57	2.75	8.41	3.21	1.75	0.940	0.756	2.45	1968
1969	0.473	0.402	0.403	4.88	5.39	2.16	7.81	15.6	5.89	5.78	2.82	0.819	4.82	1969
1970	0.508	0.606	0.788	5.88	6.00	8.68	3.30	1.55	0.950	0.942	0.805	0.533	2.93	1970
1971	0.508	0.847	0.867	9.16	7.15	27.8	26.3	2.76	2.25	4.52	2.08	1.09	7.07	1971
1972	0.826	0.406	2.36	7.97	18.0	31.1	8.41	3.87	2.82	6.00	3.71	1.24	7.12	1972
1973	0.690	0.982	0.978	12.4	15.2	4.59	2.27	5.05	2.14	2.91	1.17	0.812	4.13	1973
1974	0.728	0.718	0.883	15.7	23.2	3.11	8.08	2.91	2.08	2.02	0.882	0.871	5.01	1974
1975	0.542	0.883	0.824	1.78	4.88	5.83	5.82	0.969	0.934	0.888	0.578	0.489	1.88	1975
1976	0.525	0.509	0.536	8.79	2.83	3.46	8.44	8.78	2.80	1.48	0.935	0.670	2.85	1976
1977	0.543	0.850	0.891	3.81	25.6	10.0	8.85	8.01	14.3	8.70	1.52	0.772	7.00	1977
1978	0.572	0.852	1.15	7.05	10.6	18.1	8.09	2.70	11.2	4.11	1.94	1.08	5.45	1978
1979	0.498	0.818	0.824	2.16	8.77	9.37	3.94	2.48	0.778	1.23	0.898	0.827	3.10	1979
1980	0.598	0.588	0.821	7.75	7.78	43.1	13.7	8.22	8.75	3.12	1.95	1.28	7.91	1980
1981	0.610	0.569	1.08	3.82	8.95	8.82	3.30	1.46	0.981	1.00	0.937	0.257	2.58	1981
1982	0.178	0.338	0.322	9.39	8.75	8.88	41.1	4.89	4.74	3.87	1.21	0.585	8.26	1982
1983	0.558	0.804	0.843	3.18	2.81	5.15	12.8	1.34	1.05	1.07	0.887	0.432	2.67	1983
1984	0.420	0.812	0.882	3.16	8.56	8.08	1.45	1.28	7.77	3.56	1.85	1.02	3.11	1984
1985	0.926	0.844	0.598	8.58	4.85	3.85	2.10	4.21	8.37	3.57	1.21	1.07	3.50	1985
1986	0.853	0.763	1.52	4.38	16.2	8.08	53.2	8.36	6.85	10.1	2.89	1.82	9.43	1986
1987	0.978	0.786	0.717	3.36	4.38	2.40	3.03	4.07	1.12	0.789	0.897	0.380	1.81	1987
1988	0.280	0.180	0.894	2.85	1.18	8.83	4.53	2.45	1.37	1.51	0.741	0.589	1.80	1988
MEAN	0.532	0.497	0.711	8.78	9.18	8.87	9.05	4.33	3.82	2.78	1.30	0.735	3.98	MEAN

LOCATION - LAT 53 35 55 N, LONG 118 18 15 W
DRAINAGE AREA, 829 km^2
NATURAL FLOW

WOLF CREEK AT HIGHWAY NO. 16A - STATION NO. 07AB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	...	...	...	...	1954
1955	27.4 AT 16:15 MST ON JUN 1	27.2 ON JUN 1	0.110 ON SEP 4	93 900	1955
1956	...	11.2 ON JUN 18	0.1428 ON MAR 5	57 100	1956
1957	...	39.4 ON APR 26	0.1428 ON FEB 1	111 000	1957
1958	84.1 AT 11:00 MST ON JUN 29	80.4 ON JUN 29	0.0858 ON DEC 8	90 100	1958
1959	28.6 AT 15:30 MST ON JUN 16	23.6 ON JUN 19	0.0288 ON JAN 19	61 500	1959
1960	...	...	...	...	1960
1961	3.40 AT 14:00 MST ON JUL 31	52.7 ON JUL 3	0.0858 ON DEC 8	96 100	1961
1962	...	8.81 ON JUL 31	0.0238 ON DEC 24	41 400	1962
1963	...	20.5 ON MAY 21	0.0288 ON FEB 2	104 000	1963
1964	...	41.1 ON APR 27	0.0288 ON MAR 28	78 800	1964
1965	...	60.6 ON MAY 6	0.1478 ON JAN 10	144 000	1965
1966	...	65.9 ON JUL 10	0.1708 ON JAN 10	223 000	1966
1967	...	49.3 ON AUG 6	0.2278 ON FEB 28	194 000	1967
1968	...	19.2 ON MAY 9	0.0858 ON DEC 14	76 800	1968
1969	...	14.1 ON AUG 7	0.0148 ON FEB 6 *	77 600	1969
1970	...	138 ON AUG 6	0.3008 ON DEC 22	146 000	1970
1971	...	40.6 ON JUN 17	0.4818 ON JAN 11	79 800	1971
1972	250 AT 23:30 MST ON JUN 25	89.2 ON JUL 12	0.4788 ON JAN 14	223 000	1972
1973	...	216 ON JUN 25	0.2928 ON FEB 18	228 000	1973
1974	...	33.7 ON MAY 5	0.748 ON JAN 17	130 000	1974
1975	...	56.9 ON APR 27	0.3438 ON NOV 12	158 000	1975
1976	...	44.2 ON JUN 28	0.3438 ON NOV 25	61 700	1976
1977	...	25.1 ON APR 13	0.4498 ON MAR 4	93 200	1977
1978	...	83.9 ON MAY 30	0.4118 ON JAN 7	221 000	1978
1979	...	39.1 ON JUN 15	0.4848 ON FEB 13	173 000	1979
1980	...	29.6 ON JUN 15	0.2958 ON JAN 25	97 900	1980
1981	...	156 ON JUN 8	0.5418 ON MAR 5	251 000	1981
1982	...	33.2 ON MAY 8	0.1108 ON DEC 25	81 200	1982
1983	...	182 ON JUL 8	0.0808 ON JAN 3	198 000	1983
1984	...	32.7 ON JUL 2	0.3308 ON DEC 24	81 000	1984
1985	35.6 AT 02:10 MST ON SEP 14	27.8 ON MAY 17	0.3008 ON JAN 15	95 200	1985
1986	570 ON JUL 18 *	33.1 ON SEP 14	0.4858 ON MAR 14	110 000	1986
1987	11.8 AT 21:53 MST ON MAY 23	381 A ON JUL 18 *	0.4188 ON FEB 26	298 000	1987
1988	20.5 AT 21:52 MST ON JUN 12	11.4 ON MAY 23	0.3008 ON DEC 31	87 200	1988
		17.8 ON JUN 13	0.1188 ON FEB 24	95 800	MEAN
				135 000	

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WOLF RIVER AT OUTLET OF WOLF LAKE - STATION NO. 08AB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	...	...	...	...	...	...	...	...	...	...	...	...	...	1968
1969	0.567	0.590	0.640	1.80	3.43	1.61	0.934	0.597	0.694	0.528	0.537	0.541	...	1969
									0.533	0.597	0.544	0.590	1.07	
1970	0.708	0.708	0.805	1.51	3.13	1.21	13.2	6.83	4.30	3.65	2.68	1.95	3.24	1970
1971	1.41	1.03	0.718	3.05	8.72	3.58	10.4	4.07	1.09	0.242	0.078	0.198	2.85	1971
1972	0.327	0.418	0.520	2.33	5.80	2.30	0.837	0.598	0.100	0.073	0.177	0.184	1.14	1972
1973	0.180	0.178	0.181	0.440	1.87	3.74	2.60	2.61	3.52	2.68	2.42	1.57	1.63	1973
1974	1.15	0.841	0.884	4.74	18.7	9.18	2.18	0.914	0.886	0.867	0.817	0.880	3.26	1974
1975	0.721	0.934	0.756	1.26	4.86	4.03	7.72	4.18	1.89	1.02	0.865	0.880	2.50	1975
1976	0.828	0.489	0.408	0.859	0.813	0.641	3.04	3.07	1.78	0.878	0.407	0.428	1.07	1976
1977	0.452	0.393	0.378	0.854	1.62	1.88	1.12	1.58	1.10	0.885	0.840	0.390	0.917	1977
1978	0.384	0.452	0.448	0.784	1.88	3.50	1.18	0.341	0.551	0.852	0.241	0.390	0.881	1978
1979	0.484	0.472	0.492	0.855	2.08	4.18	1.28	0.370	0.888	0.389	0.308	0.518	0.870	1979
1980	0.451	0.384	0.222	0.778	0.431	0.172	0.028	1.24	3.18	3.00	1.42	0.899	1.01	1980
1981	0.556	0.399	0.317	0.581	0.823	0.374	0.503	0.248	0.051	0.004	0	0	0.305	1981
1982	0	0	0	0.040	0.807	0.444	0.361	0.387	0.307	0.175	0.083	0.028	0.201	1982
1983	0.024	0.062	0.070	0.161	1.78	0.724	0.881	0.450	0.228	0.141	0.196	0.100	0.398	1983
1984	0.095	0.173	0.145	0.384	1.06	2.88	0.932	0.218	0.014	0.015	0.118	0.184	0.518	1984
1985	0.250	0.267	0.231	0.888	3.84	2.36	0.882	0.200	0.054	0.005	0.001	0	0.742	1985
1986	0	0	0.001	0.059	0.706	0.501	2.01	2.78	0.193	0.053	0.018	0.057	0.837	1986
1987	0.143	0.301	0.307	1.66	2.32	...	...	...	...	0.021	0.010	...	...	1987
1988	0	0.004	0.044	0.037	0.127	0.867	1.15	0.884	0.848	0.127	0.082	0.080	0.304	1988
MEAN	0.428	0.400	0.378	1.13	3.04	2.21	2.88	1.80	1.08	0.782	0.542	0.477	1.34	MEAN

LOCATION - LAT 54 42 47 N, LONG 111 00 03 W. DRAINAGE AREA, 735 km^2. NATURAL FLOW

WOLF RIVER AT OUTLET OF WOLF LAKE - STATION NO. 08AB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	---	---	---	1966
1968	---	5.24 ON MAY 7	0.487 ON AUG 28	33 900	1968
1970	18.0 AT 23:55 MST ON JUL 6	17.5 ON JUL 12	0.708E ON JAN 1	105 000	1970
1971	13.7 AT 05:30 MST ON JUL 14	13.7 ON JUL 14	0.065 ON NOV 5	83 700	1971
1972	---	7.22 E ON APR 30	0.048 ON OCT 19	35 100	1972
1973	5.37 AT 11:30 MST ON JUN 23	5.21 ON JUN 23	0.187 ON JAN 13	57 700	1973
1974	22.1 AT 11:00 MST ON MAY 15 *	22.0 ON MAY 14 *	0.558 ON SEP 4	103 000	1974
1975	10.1 AT 20:30 MST ON JUL 3	9.77 ON JUL 6	0.580 ON NOV 22	76 800	1975
1976	4.33 AT 20:30 MST ON JUL 20	4.25 ON JUL 20	0.337 ON APR 1	33 800	1976
1977	2.81 AT 15:30 MST ON MAY 29	2.71 ON MAY 29	0.32E ON MAR 6	28 900	1977
1978	---	5.48 ON JUN 5	0.235A ON AUG 15	26 100	1978
1979	---	5.96 A ON JUN 17	0.182 ON NOV 21	30 500	1979
1980	---	4.27 A ON SEP 27	0.003E ON JUL 30	31 800	1980
1981	---	0.817A ON APR 27	0 B ON NOV 14 *	9 610	1981
1982	0.951 AT 18:42 MST ON MAY 30	0.894 ON MAY 24	0 B ON JAN 1	5 330	1982
1983	2.50 AT 09:43 MST ON MAY 7	2.36 ON MAY 7	0.026B ON JAN 1	12 600	1983
1984	---	3.87 E ON JUN 9	0.003 ON SEP 6	18 300	1984
1985	5.14 AT 17:23 MST ON MAY 15	5.10 ON MAY 15	0 B ON DEC 1	23 400	1985
1986	4.93 AT 15:02 MST ON AUG 1	4.84 ON AUG 1	0 B ON JAN 1	16 900	1986
1987	3.03 AT 15:36 MST ON APR 25	2.92 ON APR 29	---	---	1987
1988	1.81 AT 19:13 MST ON JUL 21	1.69 ON JUL 21	0 B ON JAN 1	9 800	1988
				39 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ALPHABETICAL INDEX / INDEX ALPHABETIQUE

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